

DESCRIPTION OF TABLES AND CHARTS.

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Table I gives, for about 130 Weather Bureau stations making two observations daily and for about 20 others making only one observation, the data ordinarily needed for climatological studies, viz, the monthly mean pressure, the monthly means and extremes of temperature, the average conditions as to moisture, cloudiness, movement of the wind, and the departures from normals in the case of pressure, temperature, and precipitation, the total depth of snowfall, and the mean wet-bulb temperatures. The altitudes of the instruments above ground are also given.

Table II gives, for about 2,700 stations occupied by voluntary observers, the highest maximum and the lowest minimum temperatures, the mean temperature deduced from the average of all the daily maxima and minima, or other readings, as indicated by the numeral following the name of the station; the total monthly precipitation, and the total depth in inches of any snow that may have fallen. When the spaces in the snow column are left blank it indicates that no snow has fallen, but when it is possible that there may have been snow of which no record has been made, that fact is indicated by leaders, thus (. . .).

Table III gives, for 26 stations selected out of 113 that maintain continuous records, the mean hourly temperatures deduced from the Richard thermographs described and figured in the Report of the Chief of the Weather Bureau, 1891-92, p. 29.

Table IV gives, for 26 stations selected out of 104 that maintain continuous records, the mean hourly pressures as automatically registered by Richard barographs, except for Washington, D. C., where Foreman's barograph is in use. Both instruments are described in the Report of the Chief of the Weather Bureau, 1891-92, pp. 26 and 30.

Table V gives, for about 130 stations, the arithmetical means of the hourly movements of the wind ending with the respective hours, as registered automatically by the Robinson anemometer, in conjunction with an electrical recording mechanism, described and illustrated in the Report of the Chief of the Weather Bureau, 1891-92, p. 19.

Table VI gives, for all stations that make observations at 8 a. m. and 8 p. m., the four component directions and the resultant directions based on these two observations only and without considering the velocity of the wind. The total movement for the whole month, as read from the dial of the Robinson anemometer, is given for each station in Table I. By adding the four components for the stations comprised in any geographical division the average resultant direction for that division can be obtained.

Table VII gives the total number of stations in each State from which meteorological reports of any kind have been received, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table VIII gives, for about 70 stations, the average hourly sunshine (in percentages) as derived from the automatic records made by two essentially different types of instruments, designated, respectively, the thermometric recorder and the photographic recorder. The kind of instrument used at each station is indicated in the table by the letter T or P in the column following the name of the station.

Table IX gives a record of rains whose intensity at some period of the storm's continuance equaled or exceeded the following rates:

Duration, minutes..	5	10	15	20	25	30	35	40	45	50	60	80	100	120
Rates pr. hr. (ins.)..	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.86	0.84	0.75	0.60	0.54	0.50

In the northern part of the United States, especially in the colder months of the year, rains of the intensities shown in the above table seldom occur. In all cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest rainfall of any single storm has been given, also the greatest hourly fall during that storm.

Table X gives the record of excessive precipitation at all stations from which reports are received.

Table XI gives, for about 30 stations furnished by the Canadian Meteorological Service, Prof. R. F. Stupart, director, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values, except in the case of snowfall.

NOTES EXPLANATORY OF THE CHARTS.

Chart I, tracks of centers of high areas, and Chart II, tracks of centers of low areas, are constructed in the same way. The Roman numerals show number and chronological order of highs (Chart I) and lows (Chart II). The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the 8 a. m. and 8 p. m., seventy-fifth meridian time, observations. Within each circle is also given (Chart I) the highest barometric reading and (Chart II) the lowest pressure at or near the center at that time.

Chart III.—Total precipitation. The scale of shades showing the depth of rainfall is given on the chart itself. For isolated stations the rainfall is given in inches and tenths, when appreciable; otherwise, a "trace" is indicated by a capital T, and no rain at all, by 0.0.

Chart IV.—Sea-level pressure, temperature, and resultant surface winds. The wind directions on this Chart are the computed resultants of observations at 8 a. m. and 8 p. m., daily; the resultant duration is shown by figures attached to each arrow. The temperatures are the means of daily maxima and minima and are reduced to sea level. The pressures are the means of 8 a. m. and 8 p. m. observations, daily, and are reduced to sea level and to standard gravity. The reduction for 30 inches of the mercurial barometer, as formerly shown by the marginal figures for each degree of latitude, has already been applied.

Chart V.—Hydrographs for seven principal rivers of the United States.

Chart VI.—Surface temperatures; maximum, minimum, and mean. Lines of equal monthly mean temperature in red; lines of equal maximum temperature in black; and lines of equal minimum temperature (dotted) also in black.

Chart VII.—Percentage of sunshine. The average cloudiness at each Weather Bureau station is determined by numerous personal observations during the day. The difference between the observed cloudiness and 100, it is assumed, represents the percentage of sunshine, and the values thus obtained have been used in preparing Chart VII.

Charts VIII.—Sea-level pressure, temperature, and resultant surface winds, West Indian stations, for July. See explanation under Chart IV.

TABLE I.—Climatological data for Weather Bureau Stations, July, 1899.

Stations.	Elevation of instruments		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.						Precipitation, in inches.		Wind.						
	Barometer above sea level, feet.	Thermometers above ground.	Mean actual, 8 a.m. and 8 p.m. + 2°.	Mean reduced.	Departure from normal.	Mean max. and min., + 2°.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total movement, miles.	Prevailing direction.	Maximum velocity.
																	Miles per hour.	Date.	
New England.																			
Eastport.	76	69	74	29.84	29.93	+ .01	59.2	5	+ 0.3	80	11	66	46	20	56	79	5.63	+ 0.2	30
Portland, Me.	103	81	89	29.79	29.89	- .08	67.9	0	- 0.6	87	4	76	48	25	61	57	8.92	+ 0.4	23
Northfield.	873	15	65	29.02	29.93	- .01	65.3	0	0.2	82	2	77	57	21	54	45	3.41	+ 0.2	42
Boston.	125	115	191	29.82	29.93	- .03	72.6	0	1.3	94	4	82	55	21	60	57	9.57	- 0.9	21
Nantucket.	14	43	54	29.07	29.88	+ .02	68.6	0	1.4	82	18	74	55	24	63	44	2.52	- 0.9	3
Woods Hole.	23	11	55	29.95	29.97	- .01	71.5	0	1.3	91	15	75	57	1	64	64	8.86	- 0.4	34
Vineyard Haven.	20	55	0	29.94	29.97	- .01	68.4	0	0.6	85	17	79	57	1	64	22	3.86	+ 0.9	21
Block Island.	27	11	48	29.94	29.97	+ .01	70.4	0	0.8	80	17	78	49	1	63	19	8.86	+ 0.6	34
Narragansett.	107	118	140	29.85	29.96	- .00	71.5	0	0.3	90	27	80	51	1	63	26	4.17	- 0.8	30
New Haven.	107	84	113	29.84	29.95	+ .08	78.2	0	0.8	94	27	83	50	20	64	38	6.05	+ 0.2	26
Mid. Atlan. States.																			
Albany.	97	84	113	29.84	29.95	+ .08	78.2	0	0.8	94	27	83	50	20	64	38	4.78	- 1.3	24
Binghamton.	875	79	90	29.84	29.95	+ .08	70.2	0	1.5	91	4	81	43	1	66	57	9.17	+ 2.4	24
New York.	814	818	846	29.84	29.97	- .00	73.8	0	0.3	90	27	81	59	1	66	22	6.20	+ 1.9	50
Harrisburg.	377	94	104	29.86	29.98	- .00	75.1	0	2.2	94	27	84	50	1	68	27	1.90	- 2.4	39
Philadelphia.	117	103	184	29.86	29.98	- .00	76.7	0	1.0	96	27	82	56	1	68	26	4.69	+ 0.5	42
Atlantic City.	52	68	76	29.94	29.99	+ .03	70.4	0	1.5	98	13	75	60	1	64	24	4.78	- 1.4	24
Cape May.	24	52	70	29.98	30.00	- .00	69.7	0	3.9	84	15	75	62	1	64	20	3.94	- 0.1	48
Baltimore.	128	68	82	29.85	29.97	+ .01	76.6	0	0.4	96	22	87	55	1	68	28	1.64	- 3.1	48
Washington.	112	50	76	29.87	29.99	+ .02	76.6	0	0.2	94	22	86	54	1	70	20	7.06	+ 1.5	36
Cape Henry.	5	34	0	29.87	29.99	- .02	77.4	0	0.4	98	16	85	55	1	70	27	8.11	+ 2.5	12
Lynchburg.	685	88	88	29.27	29.99	+ .01	75.6	0	1.0	95	16	87	53	1	68	30	8.87	0.0	18
Norfolk.	92	102	111	29.32	30.01	+ .03	78.8	0	0.3	90	30	87	61	1	70	24	5.87	0.0	16
Richmond.	144	98	105	0	0	0	79.0	0	0.5	96	16	89	60	1	69	27	4.12	0.0	26
S. Atlantic States.																			
Charlotte.	773	68	76	29.31	30.00	- .00	78.6	0	0.4	100	16	89	58	1	68	68	5.96	+ 0.4	31
Hatteras.	11	17	36	30.03	30.04	+ .04	77.6	0	0.1	95	20	85	58	1	70	23	9.50	+ 0.1	46
Kittyhawk.	9	19	30	0	0	0	77.6	0	0.4	95	20	85	58	1	70	23	8.70	+ 0.2	36
Raleigh.	375	93	101	29.63	30.01	- .00	77.6	0	0.5	95	24	87	58	1	70	27	8.85	+ 0.1	26
Wilmington.	78	82	96	29.95	30.03	+ .08	78.0	0	1.7	92	24	84	61	1	72	27	8.05	+ 0.8	26
Charleston.	48	14	92	30.00	30.05	+ .04	80.8	0	1.0	96	26	95	70	1	76	27	5.27	- 0.3	30
Columbia.	5	0	0	30.00	30.05	- .00	82.0	0	0.7	105	16	93	61	1	71	21	7.52	- 0.3	30
Augusta.	180	89	103	30.01	30.00	+ .02	81.2	0	0.1	100	15	91	61	2	71	27	5.11	- 0.1	30
Savannah.	65	63	89	29.94	30.02	- .00	81.3	0	0.6	98	15	90	65	2	73	25	7.50	- 1.4	30
Jacksonville.	43	69	84	29.98	30.03	+ .02	81.2	0	0.9	98	15	90	67	5	73	25	6.12	- 0.4	42
Florida Peninsula.																			
Jupiter.	28	13	30	30.00	30.03	- .03	90.9	0	0.1	91	81	87	71	2	75	18	8.35	- 1.4	24
Key West.	22	43	50	30.00	30.03	+ .01	82.7	0	1.3	90	4	87	69	1	78	77	3.61	- 0.2	44
Tampa.	36	60	67	29.97	30.01	- .01	79.8	0	1.6	94	37	88	68	1	73	21	15.58	+ 5.7	27
East Gulf States.																			
Atlanta.	1,191	139	156	28.81	30.02	- .02	79.2	0	0.8	97	17	88	62	2	70	28	6.04	+ 1.0	44
Macon.	870	0	0	0	0	0	80.6	0	0.2	100	16	91	60	2	70	31	6.42	- 0.9	38
Pensacola.	50	78	90	0	0	0	81.0	0	0.2	95	21	87	68	2	70	31	2.47	- 0.9	38
Mobile.	57	88	96	29.95	30.01	+ .01	81.0	0	0.2	96	20	89	69	1	73	23	9.90	+ 3.3	27
Montgomery.	231	100	112	29.78	30.01	- .00	81.4	0	0.1	98	17	92	64	3	71	27	13.42	+ 8.9	33
Meridian.	375	84	94	0	0	0	79.3	0	0.7	90	15	90	59	3	71	27	5.76	- 1.1	23
Vicksburg.	247	65	73	29.71	29.97	- .05	81.6	0	0.3	94	20	91	64	10	72	25	2.50	- 2.0	29
New Orleans.	54	112	120	29.94	30.00	+ .01	81.4	0	0.4	93	21	89	69	5	73	25	6.02	- 1.0	27
Port Hads.	27	0	0	0	0	0	82.4	0	0.1	92	20	88	70	4	77	17	6.16	- 2.2	27
West Gulf States.																			
Shreveport.	249	77	84	29.72	29.98	- .01	89.2	0	0.7	101	29	94	62	11	70	72	6.98	- 2.6	24
Fort Smith.	457	74	82	29.48	29.95	- .00	80.1	0	0.1	95	35	91	60	10	71	26	5.14	- 0.7	30
Little Rock.	357	93	100	29.61	29.95	- .00	79.5	0	0.8	94	31	89	62	10	70	74	7.34	+ 3.3	27
Corpus Christi.	20	42	50	29.94	29.98	- .02	82.8	0	1.1	93	26	87	64	3	71	27	14.24	+ 8.9	27
Fort Worth.	670	106	114	0	0	0	81.4	0	0.1	102	23	91	64	5	72	27	1.66	- 0.9	36
Galveston.	54	85	96	29.91	29.96	- .03	81.3	0	0.6	91	9	87	70	2	71	27	2.50	- 2.9	27
Palestine.	510	54	61	29.91	29.96	- .03	81.3	0	0.3	97	25	91	68	11	72	26	6.02	- 1.4	36
San Antonio.	704	85	104	29.23	29.94	- .03	82.8	0	0.5	100	23	93	66	12	73	26	2.85	- 0.6	36
Ohio Val. & Tenn.																			
Chattanooga.	762	106	112	29.23	30.01	- .00	76.6	0	0.8	98	15	88	61	2	69	31	2.97	- 2.0	18
Knoxville.	1,004	10	88	28.98	30.01	- .02	76.8	0	0.4	98	15	87	58	9	66	32	3.98	- 0.4	27
Memphis.	389	140	154	29.57	29.98	- .01	80.0	0	0.7	94	14	88	65	22	71	69	5.86	+ 2.4	35
Nashville.	545	128	134	29.44	30.00	+ .02	79.6	0	0.3	96	16	90	60	10	69	31	6.44	+ 2.1	29
Lexington.	290	75	103	29.44	29.99	+ .01	77.2	0	1.5	96	14	89	55	9	67	36	0.97	- 1.7	24
Louisville.	525	114	136	29.44	29.99	+ .01	78.6	0	0.3	95	14	89	58	9	69	30	2.09	- 1.7	36
Evansville.	434	72	82	29.56	29.98	- .01	74.2	0	0.5	94	14	88	58	9	69	30	3.27	- 1.7	24
Indianapolis.	823	154	164	29.14	29.98	- .01	75.6	0	0.5	94	14	88	58	9	69	30	3.64	- 0.6	36
Cincinnati.	628	152	157	29.34	30.00	+ .03	78.9	0											

TABLE I.—Climatological data for Weather Bureau Stations, July, 1899—Continued.

Stations.	Elevation of instruments.			Temperature of the air, in degrees Fahrenheit.												Precipitation, in inches.			Wind.			Cloudy days.			Average cloudiness, tenths.								
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Mean actual, 8 a.m. and 8 p.m. + 2.	Mean reduced.	Departure from normal.	Mean max. and min. + 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total.	Departure from normal.	Days with 0.1 or more.	Total movement, miles.	Prevailing direction.	Miles per hour.	Maximum velocity.	Date.	Clear days.	Partly cloudy days.						
<i>Upper Miss. Valley.</i>																																	
Minneapolis	99	206	29.06	29.94	— .01	73.4	— 0.1	73.9	— 1.4	91	18	83	53	30	68	31	64	50	66	3.47	0.5	30	n.	16	7	16	8	4.4					
St. Paul	837	114	124	29.06	29.94	— .01	73.0	— 0.1	73.0	— 0.1	91	21	83	53	30	68	31	64	50	66	1.54	— 2.3	8	5,508	sw.	30	28	28	10	18	34.8		
La Crosse	720	70	75	29.32	29.98	— .03	73.0	— 0.1	73.0	— 0.1	91	21	83	48	30	68	31	64	50	66	1.51	— 1.8	11	4,813	sw.	36	28	16	10	15	5.4		
Davenport	606	71	79	29.32	29.98	— .03	75.2	— 0.2	94	26	85	54	30	68	27	67	63	68	68	68	2.84	— 0.8	7	3,811	s.	24	21	16	10	8	4.2		
Des Moines	867	84	85	29.08	29.99	+ .03	75.0	— 0.1	91	11	84	51	30	64	29	65	61	68	68	68	3.20	— 0.3	9	4,063	sw.	35	w.	7	16	8	3.8		
Dubuque	638	101	109	29.23	29.95	— .01	74.0	— 0.8	92	21	84	51	30	64	29	65	61	68	68	68	4.13	— 0.2	9	4,199	n.w.	25	n.w.	26	16	15	3.8		
Keokuk	614	84	94	29.34	29.97	+ .01	76.0	— 0.9	95	26	85	55	30	67	64	68	64	68	68	68	5.39	— 1.3	8	3,937	sw.	20	20	21	16	8	3.7		
Cairo	359	87	93	29.61	29.98	+ .01	77.8	— 1.1	92	14	86	63	30	70	23	71	68	77	77	77	3.80	— 0.4	10	4,040	sw.	44	sw.	29	10	13	4.8		
Springfield, Ill.	644	82	83	29.31	29.97	— .01	76.2	— 0.2	95	26	86	58	30	67	62	68	66	68	68	68	6.15	— 1.2	9	4,813	sw.	27	sw.	3	9	9	5.3		
Hannibal	534	75	107	29.31	29.97	— .01	75.7	— 0.1	95	26	86	58	30	67	62	68	66	68	68	68	5.49	— 1.6	8	4,497	sw.	37	sw.	12	16	11	4.8		
St. Louis	567	111	210	29.38	29.97	.00	75.7	— 0.1	95	26	86	58	30	67	62	68	66	68	68	68	4.54	— 0.8	12	5,254	s.	31	w.	3	10	8	5.2		
<i>Missouri Valley.</i>																																	
Columbia	783	4	84	29.08	29.97	+ .03	75.3	— 0.8	95	26	87	53	30	64	31	64	50	55	68	68	68	5.57	— 1.4	9	4,427	sw.	30	n.	21	9	14	8.5	
Kansas City	968	78	85	29.09	29.97	+ .03	76.3	— 1.3	93	26	84	55	30	67	24	69	66	78	78	78	1.69	— 3.1	9	5,255	s.	38	n.	6	13	13	5.1		
Springfield, Mo.	1,324	100	103	28.62	29.97	+ .01	76.3	— 0.5	93	26	85	55	30	67	24	69	66	78	78	78	6.40	— 1.8	14	5,588	s.	33	n.	22	12	19	8.5		
Topeka	81	81	81	28.73	29.96	+ .03	74.4	— 2.4	94	26	86	55	30	64	33	66	63	71	71	71	1.47	— 2.4	7	5,588	s.	36	n.w.	2	12	19	8.5		
Lincoln	1,199	74	84	28.73	29.96	+ .03	74.4	— 2.4	94	26	86	55	30	64	33	66	63	71	71	71	1.47	— 2.4	7	5,588	s.	36	n.w.	2	12	19	8.5		
Omaha	1,105	115	128	28.81	29.94	.00	75.0	— 1.2	92	10	84	58	30	67	25	68	73	73	73	73	1.73	— 3.0	7	4,756	se.	27	n.	20	9	10	5.7		
Sioux City	1,189	98	164	28.81	29.94	.00	75.0	— 1.2	92	10	84	58	30	67	25	68	73	73	73	73	1.00	— 2.8	5	6,966	s.	39	s.	5	16	5	10.4		
Pierre	1,572	50	82	28.30	29.90	— .01	75.8	— 1.2	106	22	89	55	30	64	40	62	53	51	51	51	2.88	— 0.7	6	8,393	se.	42	ne.	22	16	11	4.8		
Huron	1,306	56	87	28.58	29.98	— .01	75.8	— 1.2	106	22	89	55	30	64	40	62	53	51	51	51	2.88	— 0.7	6	8,393	se.	38	so.	3	14	8	4.8		
Yankton	1,234	52	58	28.58	29.98	— .01	73.6	— 0.9	97	20	84	52	30	68	31	68	68	68	68	68	3.67	— 1.0	6	5,185	s.	36	s.	25	12	16	3.4		
<i>Northern Slope.</i>																																	
Havre	2,494	46	47	27.85	29.89	+ .01	71.8	— 0.6	90	18	83	48	30	54	40	57	48	56	56	56	1.53	— 0.1	14	5,707	w.	46	w.	21	12	24	0.2		
Miles City	3,371	42	50	27.47	29.87	— .03	71.8	— 1.9	101	20	87	44	30	57	46	61	55	61	61	61	1.89	— 0.5	9	3,498	n.	62	n.	21	17	11	3.4		
Helena	4,108	88	93	26.59	29.96	+ .06	76.8	— 1.4	94	18	81	53	30	52	37	64	59	68	68	68	4.06	— 0.5	7	5,720	sw.	55	sw.	28	16	10	4.8		
Kalispell	2,964	45	51	26.92	29.95	.00	64.0	— 0.4	89	18	79	41	30	49	40	52	43	55	55	55	55	1.10	— 0.1	12	5,587	n.w.	31	n.	24	18	10	3.4	
Rapid City	3,251	46	50	26.63	29.87	— .03	71.8	— 0.5	92	21	85	45	30	52	37	64	59	68	68	68	6.56	— 3.4	12	6,393	sw.	34	se.	30	18	12	5.0		
Cheyenne	6,084	58	60	24.12	29.92	+ .05	65.6	— 1.3	91	25	80	45	30	51	39	53	42	53	53	53	2.29	— 1.5	17	6,403	s.	28	n.w.	4	15	8	6.0		
Landet	5,372	36	56	24.72	29.94	+ .03	66.3	— 0.8	93	21	82	43	30	52	39	53	42	53	53	53	5.372	— 1.3	17	3,463	s.	28	n.w.	4	15	8	6.0		
North Platte	5,936	43	52	27.10	29.94	— .03	72.6	— 0.9	101	21	85	52	30	55	35	58	58	68	68	68	6.17	— 2.4	11	5,455	s.	32	w.	31	14	15	4.5		
<i>Middle Slope.</i>																																	
Denver	5,390	79	151	24.88	29.94	+ .09	70.4	— 1.3	95	25	84	51	30	45	37	57	57	64	64	64	1.93	— 0.8	14	5,519	sw.	35	n.w.	3	12	15	4.5		
Pueblo	4,682	74	81	25.36	29.94	+ .07	72.2	— 1.8	96	21	85	54	30	45	37	57	57	64	64	64	4.06	— 1.9	15	5,112	s.	39	n.	21	7	14	4.6		
Concordia	1,398	42	47	28.53	29.96	+ .03	75.8	— 1.3	97	26	86	55	30	55	45	57	57	64	64	64	2.24	— 1.1	8	3,303	sw.	34	sw.	28	16	10	3.5		
Dodge	2,504	44	52	27.41	29.93	+ .04	75.4	— 2.2	96	26	86	58	30	55	45	57	57	64	64	64	6.56	— 3.4	12	6,393	sw.	34	se.	30	n.w.	7	12	5	6.0
Wichita	1,351	78	85	28.57	29.95	+ .03	77.4	— 1.0	96	31	87	53	30	50	39	68	68	74	74	74	4.82	— 1.0	10	4,825	s.	30	n.	7	12	5	6.0		
Oklahoma	1,218	54	62	28.57	29.95	+ .03	78.8	— 0.9	92	31	87	56	30	50	39	68	68	74	74	74	6.17	— 2.4	11	5,455	s.	30	ne.	7	15	11	5.6		
<i>Southern Slope.</i>																																	
Abilene	1,749	45	54	28.18	29.94	+ .01	81.4	— 1.3	103	23	82	52	30	64	51	71	64	61	71	61	6.96	— 4.8	12	5,789	se.	26	sw.	1	16	13	8.5		
Amarillo	3,691	54	61	26.29	29.94	+ .02	73.8	— 2.2	96	23	83	54	30	54	45	57	57	64</															

TABLE II.—*Climatological record of voluntary and other cooperating observers, July, 1899.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>Alabama.</i>																		
Alco.	94	58	78.8	11.59		Pinal Ranch.	97	46	73.0	3.03		Coronado.	94	58	66.4	0.00		
Ashville.	100	55	79.3	8.27		Prescott.	97	46	73.0	1.65		Craftonville.	102	54	79.3	0.00		
Bermuda.	99	58	80.9	7.12		San Carlos.	110	58	85.4	2.25		Crescent City.	68	39	55.6	0.09		
Birmingham.	99	62	80.9	7.61		San Simon ¹ .	97	58	76.4	0.75		Crescent City L. H.	88	38	66.0	0.04		
Bridgeport.				3.84		Sentinel ¹ .	115	81	97.2	0.75		Cuyamaca.						
Citronelle.	94	68	81.1	7.85		Signal.	117	63	91.9	0.39		Delta ¹ .	107	70	85.0	0.00		
Clanton.	95	59	79.4	6.59		Snowflake.	96	51	73.6	1.96		Dewey.	105	62	84.7	0.00		
Daphne.	97	67	81.7	8.30		Strawberry.	96	48	70.6	4.64		Drytown.	112	57	86.1	0.00		
Decatur.	103	60	81.3	5.31		Texas Hill ¹ .	120	80	104.3	0.58		Dunnigan ¹ .	109	57	80.0	0.00		
Demopolis.				4.67		Tombstone.	98	60	77.3	3.50		Durham ¹ .	106	58	78.6	0.00		
Eufaula ^a .	101	62	81.7	9.15		Tonto.				3.11		East Brother L. H.						
Evergreen.	98	59	78.4	10.50		Tuba.	101	61	84.4	T.		Edmonton ¹ .	93	46	66.8	0.00		
Florence ^b .	100	59	81.0	8.65		Tucson.	107	68	86.6	1.87		El Cajon.	99	45	71.4	0.00		
Fort Deposit.	99	68	81.4	8.00		Vail ¹ .	102	70	84.5	0.20		Elmwood.	111	46	76.8	0.00		
Gadsden.	101	52	78.6	5.90		Walnut Grove.				1.07		Elsinore.	110	48	77.1	0.00		
Goodwater.	108	56	80.4	10.22		White Hills.	110	70	93.1	0.08		Escondido.	102	43	70.5	0.00		
Greensboro.	98	68	80.4	4.43		Willcox.				2.90		Fallbrook ¹ .	101	55	69.0	0.00		
Hamilton.	101	57	80.2	4.36		Winslow.	98	50	75.6	T.		Folsom City ¹ .	108	61	77.2	0.00		
Healing Springs.	97	59	79.8	4.71		Yarnell.				2.60		Fordyce Dam.						
Hightland Home.	94	67	79.6	7.94		<i>Arkansas.</i>						Fort Ross.	73	43	56.3	0.00		
Jasper.	100 ^c	58	79.4	5.92		Amity.	95	56	78.9	1.75		Georgetown.	98	56	74.8	0.00		
Livingston ^a .	100	63	81.7	6.02		Arkansas City.				2.55		Gilroy (near).	96	41	65.2	0.00		
Lock No. 4.	102	57	79.9	6.25		Beebranch.	97	53	79.0 [*]	3.20		Glendora.						
Madison Station.	101	60	80.1	4.75		Blanchard Springs.	100	55	80.6	3.19		Goshen ¹ .	109	68	86.9	0.00		
Maplegrove.	101	55	79.0	7.48		Brinkley.	95	58	78.8	1.44		Grand Island ¹ .	106	52	77.3	0.00		
Marion.	99	64	82.0	5.49		Camden ^a .				1.36		Grass Valley.						
Mount Willing.	100	65	82.8	8.73		Camden ^b .	99	56	82.3	1.80		Greenville.	98	32	64.2	0.00		
Newbern.	98	66	81.8	7.16		Canton.				8.31		Hanford.	110	53	80.2	0.00		
Newburg.	105	54	81.2	6.56		Corning.	96	53	77.8	3.36		Healdsburg.	100	36	67.4	0.00		
Newton.	100	59	79.4	5.70		Dallas.	98 ^c	57	80.7 ^c	3.46		Hollister.	96	39	64.2	0.00		
Oneonta.	99	53	77.7	8.16		Dardanelle.				8.90		Humboldt L. H.						
Opelika.	99	62	80.0	8.98		Elon.				1.79		Indio ¹ .	112	60	93.2	0.00		
Oxanna.	101	57	78.4	8.81		Fayetteville.	91	57	76.5	7.40		Iowa Hill ¹ .	98	64	74.8	0.00		
Pineapple.	101	57	82.1	5.77		Forrest.	95	58	76.7	5.71		Irvine.	100	62	79.1	0.00		
Pushmataha.	99	61	81.6	6.99		Fulton.				8.13		Jackson.	96	50	73.4	0.00		
Riverton.	102 ^d	56 ^d	81.7 ^d	3.05		Hardy.	57			8.68		Jolon.						
Rockmill.	101	58	79.2	5.35		Helena ^a .				6.28		Keene.	103	62	76.7	0.00		
Scottsboro.	99	58	78.3	6.18		Helena ^b .	98	63	81.0	6.07		Kennedy Gold Mine.	104	50	74.4	0.00		
Selma.	102	61	82.5	6.95		Hot Springs ^a .	99	58	80.0	3.10		King City ¹ .	96	46	58.4	0.00		
Talladega.	101	56	79.9	7.17		Hot Springs ^b .				2.93		Kingsburg ¹ .	110	74	90.1	0.00		
Tallassee.				6.82		Jonesboro.	98	58	80.0	6.02		Kono Tayee.	98	60	77.4	0.18		
Thomasville.	102	60	80.8	9.16		Keesees Ferry.	98	52	77.6	4.98		Lagrange ¹ .	112	57	85.2	0.00		
Tuscaloosa.	102	60	81.3	6.48		Lacrosse.				6.34		Lakeside.						
Tuscumbia.	98	61	81.8	3.84		Lonoke.	98	51	79.6	10.12		Lamesa.						
Union.	101	60	82.5	5.81		Luna Landing ¹ .	25	64	78.5	5.06		Lankershim.	113	54	80.2	0.00		
Union Springs.	100	65	82.0	6.95		Malvern.	96	53	79.5	5.53		Laporte ¹ .	88	49	62.0	0.00		
Uniontown.	98	67	82.6	6.93		Marvell.	98	58	79.7	9.01		Lick Observatory.	91	56	71.6	0.00		
Valleyhead.	98	54	77.8	5.06		Moore.				2.41		Lime Point L. H.						
Warrior.				7.11		Mountains.	98	58	74.6	7.68		Lodi.	106	48	73.6	0.00		
Wetumpka.	103	61	82.4	6.80		Mossville.	90	57	75.7	6.20		Los Alamos.						
Wilson ¹ .	97	70	81.3	12.99		Mount Nebo.	90	57	75.7	6.20		Los Gatos ¹ .	94	44	65.4	0.00		
<i>Alaska.</i>						Nashville.	98	54	80.2	8.06		Malakof Mine.	96	49	71.7	0.00		
Juneau.	86	48	61.6	1.06		New Gascony.	95	59	81.0	6.92		Mammoth Tank ¹ .	118	70	97.8	0.15		
Kenai.	92	31	54.2	1.36		Newport ^a .				6.87		Manzana.	102	60	82.6	0.00		
Killisnoo.	71	44	56.6	0.90		Newport ^c .	97	56	79.1	5.60		Mare Island L. H.						
Sitka.	87	42	56.6	2.27		Northport.	97	56	77.3	6.82		Merced a ¹ .	112	63	81.6	0.00		
<i>Arizona.</i>						Northport c.	97	56	79.1	5.60		Merced b ¹ .	112	53	79.6	0.00		
Allaire Ranch.						Oregon.	94	53	77.3	6.82		Mills College.						
Arizona Canal Co. Dam.	109	68	87.4	1.63		Oseola.	100	57	80.0	5.80		Milo.						
Benson ¹ .	99	74	84.8	1.00		Ozark.	97	59	81.8	5.87		Milton (near) ¹ .	108	55	76.6	0.00		
Bibes.	98	59	74.8	4.83		Pinebluff.	98	59	81.1	4.12		Modesto ¹ .	107	60	79.0	0.00		
Blaisdell ¹ .	116	84	96.8	0.03		Poosahontas.	95	56	77.0	6.61		Mohave ¹ .	106	70	85.7	0.00		
Bowie ¹ .	104	60	76.4	4.50		Pond.	91	58	76.0	7.03		Mokelumne Hill ¹ .	..	55	73.0	0.00		
Buckeye.	108	68	88.4	T.		Prescott.	100	58	82.4	2.99		Monterey.	104	60	88.7	0.00		
Camp Creek.	108	66	88.2	2.60		Rison.				2.41		Morena Dam.	77	51	61.4	0.00		
Casa Grande ¹ .	106	76	90.8	0.61		Russellville.	97	59	79.0	6.02		Mountain View.						
Champlie Camp.	115	68	90.3	1.55		Silver Springs.	93	58	76.5	9.44		Mount Frazier.						
Cochise ¹ .	108	70	79.7	2.61		Spielerville.	96	53	79.7	5.47		Napa b ¹ .	100	44	66.6	0.00		
Congress.	105	67	86.8	0.80		Stamps.				2.41		Needles.	113	79	96.2	1.00		
Dragoon.				4.86		Stuttgart.	97	58	79.8	6.96		Nevada City.	94	48	67.5	0.00		
Dragoon Summit ¹ .	97	58	77.0	3.82		Texarkana.	100	59	80.8	3.29		Newhall ¹ .	106	62	77.5	0.00		
Dudleyville.	105	64	84.8	1.18		Warren.	100	57	81.6	0.97		North Ontario.	94	53	73.6	0.00		
Fort Apache.	97	40	70.7	4.55		Washington.	96	58	80.2	1.91		North San Juan ¹ .	99	54	71.9	0.00		
Fort Defiance.	91	47	69.4	4.03		Wiggs ¹ .	100	58										

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>California—Cont'd.</i>																				
Point Hueneme L. H.	65	48	54.7	0.00	Ins.	Ins.	Hoechne.	98	50	70.0	3.75	2.61		Ocala.	90	69	81.6	5.49	10.18	
Point Lobos				0.00			Holly.				1.85			Orange City.					7.01	
Point Loma L. H.				0.00			Holyoke (near).	104	50	73.0	3.91			Orlando.	95	66	82.0			
Point Montara L. H.				0.00			Hugo.				5.20			Plant City.	96	68	81.0	10.36		
Point Pinos L. H.				0.00			Lake Moraine.	76	36	58.8	6.19			St. Andrews.	97	65	82.4	5.88		
Point Sur L. H.				0.00			Lamar.	105	55	76.4	5.07			St. Francis.	95	68	79.8	12.97		
Pomona (near).	102	51	75.3	0.00			Laporte.				2.63			St. Francis Barracks.	98	67	79.4	11.80		
Poway*.	94	60	68.8	0.00			Las Animas.	102	53	74.1	3.32			Sebastian.	90	71	80.6	5.51		
Quincy	95	37	65.2	0.00			Leadville (near)*.	78	48	58.7	2.21			Stephensville*.	95	72	80.0	9.69		
Ranch House.	96	60	76.0	0.00			Leroy.	100	48	70.9	2.17			Switzerland*.	95	67	79.2	12.86		
Raymond.	115	40	82.0	0.00			Longs Peak.	78	36	54.8	4.92			Tallahassee.	96	68	81.2	3.21		
Redlands.	104	52	77.6	0.00			Mancos.	92	45	67.9	0.98			Tarpon Springs.	94	69	79.6	18.46		
Reprea.	100	56	75.6	0.00			Meeker.	98	37	66.3	1.10			Wausau.	100	61	82.4	3.69		
Rio Vista.	106	51	78.0	0.00			Minneapolis.	98	58	74.6	3.15			<i>Georgia.</i>						
Roe Island L. H.				0.00			Moraine.	84	36	58.2	3.02			Adairsville.	100	56	78.4 ^d	5.23		
Ronie.	94	40	64.2	0.00			Pagoda.	96	35	65.2	0.95			Alapaha.	98	68	80.8	3.78		
Rosewood.	113	50	79.6	0.00			Parachute.	101	49	74.7	1.66			Albany.	106	67	84.2	3.88		
Sacramento a.	100	50	72.2	0.00			Perry Park.				2.85			Allentown.	104	62	84.2	3.50		
Salinas*.	76	55	66.5	0.00			Rockyford.	102	58	73.5	7.00			Americus.	101	68	81.8	3.10		
Salton*.	120	20	102.1	0.00			Ruby.				2.10			Athens b.	100	57	80.6	2.50		
San Bernardino.	106	47	75.3	0.00			Saguache.	86	44	64.2	2.01			Bainbridge.	101	65	82.6	3.33		
San Leandro*.	82	56	63.0	0.00			Salida.	91	41	65.6	3.41			Bellville.	100	67	81.6	6.67		
San Luis L. H.				0.00			San Luis.	86	39	62.6	2.66			Blakely.	96	68	81.6	5.95		
San Mateo*.	88	58	67.7	0.00			Santa Clara*.	86	47	62.5	7.06			Camak.	102	56	82.0	1.88		
San Miguel*.	107	53	75.9	0.00			Seibert.				5.02			Carlton.				4.68		
San Miguel Island.	74	47	58.7	0.00			Smoky Hill Mine.	88	37	59.4	2.83			Clayton.	94	50	75.2	7.42		
Santa Barbara a.	89	51	64.6	0.00			Springfield.				2.38			Columbus.	100	68	81.4	7.34		
Santa Barbara L. H.				0.00			Strickler Tunnel.				5.37			Covington.	103	57	81.8 ^d	2.66		
Santa Clara a.				0.00			Trinidad.				3.44			Crescent.				7.83		
Santa Cruz b.	82	38	60.0	0.00			Troutvale.	88 ^a	29 ^a	55.6 ^a	3.29			Dahlonega.	98	51	78.6	5.68		
Santa Cruz L. H.				0.00			T. S. Ranch.	90	47	71.8	0.26			Diamond.	97			4.16		
Santa Maria.	82	46	68.5	0.00			Villas.				4.21			Dublin.				3.91		
Santa Monica*.	75	62	67.5	0.00			Wagon Wheel.				3.84			Eastman.	100	68	81.8	4.72		
Santa Paula.	95	52	71.4	0.00			Walden.	87	34	60.0	1.05			Elberton.	99	61	80.6	8.85		
Santa Rosa*.	89	45	68.9	0.00			Wallet.				3.88			Fitzgerald.	101	60	81.2	8.08		
Shasta.	111	57	88.0	0.00			Westcliffe.	85	39	60.4	2.50			Fleming.	103	61	80.8	4.45		
Sonoma.				0.00			Yuma.				7.09			Fort Gaines.	101	62	81.4	6.98		
S. E. Farallone L. H.				0.00			Connecticut.				7.20			Franklin.	96	60	79.0	5.38		
Stanford University.	89	44	68.5	0.00			Bridgeport.	92	47	72.2	4.73			Gainesville.	96	55	77.4	2.40		
Stockton a.	103	50	72.1	0.00			Canton.	88	42	68.4	6.88			Gillsville.	99	53	78.4	2.92		
Summerville.	91	50	68.6	0.00			Colchester.	88	45	70.1	5.88			Greenbush.	99	53	77.4	6.84		
Susanville.	93	43	67.4	0.00			Falls Village.				5.88			Griffin.	100	59	78.6	2.15		
Tehama*.	110	74	84.0	0.00			Hartford c.	88	51	72.0	7.82			Harrison.	102	60	79.6	4.95		
Tejon Ranch.	106	66	84.2	0.00			Hawleyville.	90	48	70.6	4.91			Hawkinsville.				5.18		
Templeton*.	112	50	69.3	0.00			Middletown.	91	45	71.6	5.87			Hephzibah.						
Thermalito.	112	55	80.6	0.00			New London.	89	53	69.4	5.29			Jesup.	104	60	80.7	4.16		
Trinidad L. H.				0.13			North Grosvenor Dale.	90	46	70.5	5.82			Lagrange.	100 ^a	57 ^a	77.8 ^a	5.40		
Truckee*.	92	40	62.8	0.00			Norwalk.	88	44	70.3	5.91			Leverett.	104	53	81.5	1.84		
Tulare b.				0.00			Southington.	88	45	70.0	5.82			Louisville.	103	64	83.0	5.09		
Ukiah.	114	54	85.0	0.00			Storrs.				7.20			Lumpkin.	99	66	81.6	5.48		
Upperlake.	108	42	72.8	0.00			Voluntown.				7.20			Marietta.	94	54	76.8	6.85		
Upper Mattole*.	106	45	74.8	0.00			Wallingford.				7.20			Marshallville.	100	73	83.1	1.69		
Vacaville a*.	102	48	68.2	0.00			Waterbury.	91	43	71.3	6.02			Millen.	104	57	82.1	8.38		
Ventura.	85	49	64.6	0.00			West Cornwall.	85	48	68.4	6.70			Morgan.	102	61	83.5	7.57		
Visalia a.	98	66	78.8	0.00			West Simsbury.				6.67			Newnan.	101	59	79.7	8.45		
Visalia b.	110	56	80.8	0.00			Milford.				6.67			Oakdale.				5.03		
Volcano Springs*.	123	90	101.1	0.04			Millsboro.	93	52	76.4	6.56			Point Peter.	103	52	79.8	2.54		
Walnut Creek.	104	56	74.5	0.04			Newark.	98	52	76.0	3.64			Poulan.	100	62	80.0	5.10		
West Palmdale.				T.			Seaford.	95	55	78.6	8.37			Putnam.	102	60	81.6	4.78		
Westpoint.				0.00			<i>District of Columbia.</i>							Quitman.	102	64	82.2	7.21		
West Saticoy.				0.00			Distributing Reservoir* ^b .	92	65	78.5	8.63			Ramsey.	100	55	78.0	5.44		
Wheatland.	106	52	75.9	0.00			Receiving Reservoir* ^b .	89	62	77.6	6.76			Rome.	98	56	78.9	7.51		
Williams*.	106	64	84.8	0.00			West Washington.	95	52	76.8	6.48			Talbotton.	103	55	81.5	2.08		
Wire Bridge* ^b .	105	59	79.1	0.00			Florida.							Thomasville.	99	66	82.2	7.74		
Yerba Buena L. H.				0.00			Archer.							Toccoa.	96	57	78.6	3.46		
Yreka.	97	42	71.7	0.08			Bartow.	98	70	83.2	6.39			Union Point.	98	57	79.9	3.45		
<i>Colorado.</i>							Boca Raton.	89	68	81.4	8.43			Washington.	100	68	81.6	4.16		
Antlers.	96	45	71.8	2.25			Brooksville.	99	70	81.4	11.15			Way Cross.	100	61	81.9	4.05		
Arkins.				2.12			Carrabelle.	95	70	81.4	6.00			Waynesboro.	100	61	79.1	8.20		
Boulder.	93	49	69.0	2.18			Clermont.	100	69	84.2	6.63			Westpoint.	101	68	81.0	5.42		
Boxelder.				2.23			Dalkeith.	99	67	82.8	6.28			<i>Idaho.</i>						
Breckenridge.	75	31	51.6	2.29			De Funik's Springs.	102	62	81.0	6.44			American Falls.	103	41	72.4	0.60		
Canyon.	98	52	73.0	3.30			Downey.	95	69	79.8	.....			Atlanta.	91	32	63.0	0.02	
Castlerock.	93	45	67.8	4.48			Gray.	96	71	84.2	4.40			Blackfoot.	101	32	69.4	0.05		
Cedaredge.	96	44	70.6	0.57			Hagerman.	95	69	80.0	14.98			Burnside.	91	42	67.8	1.86		
Cheyenne Wells.	93	51	71.7	3.67			Idaho City.	101	45	81.4	9.08			Challis.	101	41	69.7	0.36		
Clearview*.	80	34	51.6	4.15			Indianola.	93	66	78.1	.....			Chesterfield.	99				

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Idaho—Cont'd.</i>																	
Priest River	95	39	69.6	0.14	Ine.	Anderson	93	47	74.0	4.35	Ine.	Iowa—Cont'd.	o	o	o	Ine.	Ine.
St. Maries	97	42	65.5	0.58		Angola	93	48	72.3	4.04		Chariton	91	48	72.7	7.20	
Salubria	103	36	71.4	0.01		Auburn	97	44	73.2	4.73		Charles City	93	48	71.6	1.82	
Soldier	97	29	64.4	0.37		Bedford	96	49	77.4	0.98		Chillicothe	96	51	74.9	5.39	
Swan Valley	94	26	64.4	0.69		Bloomington	95	53	76.2	1.60		Clarinda	98	51	73.3	1.43	
Weston	93	36	68.5	0.33		Bluffton	97	44	74.2	4.61		Clinton	94	46	73.3	3.54	
<i>Illinois.</i>						Booneville	96	50	75.0	4.10		College Springs	95	54	75.3	5.93	
Albion	95	52	77.4	4.24		Bright	96	50	75.0	2.42		Coon Rapids	90	50	73.6	2.30	
Alexander	101	52	77.4	1.84		Butterville	95	46	74.9	3.52		Council Bluffs	95	54	75.2	2.21	
Ashton	96	45	73.6	2.98		Cambridge City	97	45	73.6	2.53		Cresco	90	41	70.1	3.47	
Astoria	91	48	73.1	4.25		Columbia City ¹	93	42	73.0	4.11		Cumberland	96	51	74.9	4.90	
Aurora a	95	48	74.0	4.82		Columbus	93	47	74.6	2.60		Danville	98	42	72.8	2.84	
Aurora b	93	48	73.8	5.54		Connerville	95	47	75.0	3.85		Decorah	98	42	70.7	1.57	
Bloomington	98	52	76.0	1.92		Delphi	96	46	74.6	3.27		Des Moines	91	47	71.9	2.12	
Bushnell	99	53	76.6	2.44		Edwardsville ¹	94	55	76.9	2.65		Denison	95	48	72.6	1.95	
Cambridge	93	56	74.4	2.01		Fairmount	101	48	75.0	3.42		Diagonal	92	48	72.0	6.40	
Carlinsville	97	51	76.3	2.54		Farmland	94	45	73.0	5.06		Dows	91	47	71.2	1.44	
Carlyle	94	54	76.8	8.09		Fort Wayne	97	44	73.0	4.28		Eldon	100	52	75.8	3.62	
Charleston	94	54	76.6	0.71		Franklin ¹	98	62	75.8	0.98		Elkader	98	42	73.2	2.02	
Chemung	91	40	70.7	4.95		Greencastle	93	53	76.6	3.78		Emerson	93	48	72.4	2.40	
Chester	93	52	76.0	2.13		Greensburg	94	49	76.0	5.01		Fairfield	98	54	73.4	2.22	
Cisne	97	53	76.2	5.08		Hammond	90	45	74.0	3.15		Fayette	92	41	71.2	2.34	
Coatsburg	97	58	76.2	3.31		Hector	98	42	74.7	3.09		Fonda	93	46	72.4	3.02	
Cobden	96	54	77.6	4.23		Huntington	94	48	74.2	3.31		Forest City	91	47	71.3	2.20	
Decatur	96	49	75.6	1.02		Jeffersonville	94	53	77.6	1.97		Fort Madison	98	42	73.2	3.68	
Dixon	94	51	74.4	2.82		Knightstown	96	45	74.7	4.45		Galva	93	49	71.6	1.39	
Dwight ¹	94	59	74.4	4.73		Kokomo	91	49	73.0	4.88		Gilman	93	48	72.0	2.80	
Efingham	97	52	77.2	2.43		Lafayette	94	42	74.9	4.85		Gladbrook	93	52	73.6	1.90	
Elgin	91	48	72.6	4.81		Laporte	99	49	75.0	3.35		Grandwood	93	54	69.9	2.24	
Equality	100	54	75.8			Logansport	98	49	75.6	1.51		Green	98	40	73.4	0.72	
Flora	94	52	76.2	3.53		Madison	94	50	76.7	2.15		Greenfield	93	52	73.2	4.73	
Fort Sheridan	92	49	70.7			Marengo	94	47	74.9	3.74		Grinnell (near)	90	54	73.0	2.84	
Friendgrove ¹	96	60	78.1	4.31		Marion	98	46	74.2	3.51		Griswold	93	48	72.0	5.23	
Galva	96	49	74.8	2.82		Markle	96	44	72.8	4.40		Grundy Center	98	43	71.0	1.69	
Glenwood . . . . .	.....	.....	3.80			Manzy	97	45	74.1	3.18		Guthrie Center	93	41	71.9	2.80	
Grafton . . . . .	.....	.....	2.27			Michigan City ¹⁰	94	50	71.4			Hamburg	95	49	72.7	3.77	
Grayville	96	57	79.4	2.68		Mount Vernon	97	53	77.6			Hampton	95	49	72.7	2.79	
Greenville	99	56	78.9	1.89		Northfield	93	46	72.8	3.55		Harlan	94	50	72.6	2.31	
Griggsville	97	55	76.4	3.16		Paoli	95	47	76.9	3.73		Hawkeye	98	50	73.4	4.38	
Halfway	96	56	78.6	4.46		Perry	95	48	74.1	3.81		Hopeville	90	54	72.8	4.87	
Halliday	96	52	76.6	3.45		Prairie Creek	98	49	77.0	3.27		Humboldt	92	46	73.4	2.02	
Havana	91	58	76.2	7.11		Princeton	109	48	77.5	3.42		Independence	91	46	71.1	1.16	
Henry	93	47	74.0	4.57		Richmond	95	45	74.0	3.48		Indianola	91	52	73.7	7.84	
Hillsboro	97	53	76.2	2.18		Rockport	98	55	77.2	3.51		Iowa City	98	48	73.6	3.78	
Joliet	93	50	73.6	5.26		Rockville	91	50	75.0	2.23		Iowa Falls	95	41	73.4	1.43	
Kankakee	96	52	75.4	3.78		Salem	94	42	73.7	3.20		Kenosha	97	54	71.1	4.53	
Knoxville	96	42	73.4	2.71		Scottsburg	94	52	77.2	6.00		Knoxville	91	52	74.2	5.81	
Lagrange	91	49	72.2	8.80		Seymour	96	52	76.8	3.90		Lacona	98	50	73.2	4.51	
Lamarpe	96	48	73.8	2.58		Shelbyville	94	50	74.6	1.87		Lansing	94	43	73.2	5.08	
Lamark	93	40	72.0	3.66		South Bend	93	49	73.7	2.64		Larrabee	91	48	71.8	2.71	
Loami . . . . .	.....	.....	2.54			Terre Haute	95	55	77.8	1.56		LeClaire	91	49	71.6	3.06	
McLeansboro	96	51	76.6	5.16		Topeka	89	45	71.4	4.31		Lemars	91	49	71.6	3.22	
Martinsville	94	51	76.5	4.51		Valparaiso	92	52	72.2			Lenox	91	55	73.5	8.66	
Martinton	96	46	73.7	2.55		Vevay	97	58	79.4	0.55		Maple Valley	98	47	73.6	2.15	
Mascoutah	96	51	77.0	1.94		Vincennes	98	44	77.2	2.60		Maquoketa	96	45	72.3	2.77	
Mattoon	96	53	76.8	1.64		Washington	97	58	77.8	3.82		Marshall	95	46	73.6	1.00	
Minonk	96	47	73.7	2.19		Winamac	98	52	76.8	3.15		Mason City	92 ^a	89 ^b	70.8 ^c	2.25	
Monmouth	98	47	74.8	1.49		Worthington	97	47	76.5	1.98		Melrose	95	48	72.9	5.70	
Monticello ⁵	94	58	77.2	1.35		Hartshore	95	63	82.5	6.72		Monticello	93	48	72.9	2.48	
Morrisville	94	52	74.8	0.72		Headton	100	60	81.3	8.30		Moor	96	50	72.8	4.23	
Mount Carmel	98	54	77.2	2.30		Kemp	108	59	82.0	2.73		Mountaylor	91	55	73.6	6.25	
Mount Pulaski	98	53	75.4	4.26		Lehigh	99	64	81.4	5.80		Mount Pleasant	97	50	75.6	1.07	
Mount Vernon	96	53	75.4	2.08		Muscogee	94	60	79.0	3.63		Mount Vernon a ¹	94	60	75.0	5.49	
New Burnside	99	58	78.6	4.72		Ryan	101	65	81.6	9.23		Mount Vernon b	95	50	75.3	5.51	
Oliney	92	52	77.1	2.92		Sapulpa	94	62	77.9	4.70		Murray	98	47	71.1	4.71	
Oswego	94	50	74.3	4.83		South McAlester	61	.....	.....	.....		New Hampton	91	46	71.2	3.32	
Ottawa	98	49	74.6	5.70		Tahlequah	61	.....	13.15	3.71		Newton	93	50	73.6	2.30	
Palestine	96	49	76.6	2.98		Tulsa	61	.....	10.08	4.83		North McGregor	93	43	71.0	1.44	
Pana	97																

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.			Maximum.	Minimum.	Mean.			Maximum.	Minimum.	Mean.		
Iowa—Cont'd.					Ina.					Kansas—Cont'd.					
Sigourney	90	45	75.1	2.70	Ina.	94	58	75.6	7.92	Wamego* ¹	94	58	75.6	7.92	Maine.
Sioux Center	97 ^b	51 ^b	75.9 ^b	2.20		101	61	78.8	3.45	Ba Harbor	88	44	65.6	6.55	Ina.
Spencer	93 ^c	45 ^c	70.0 ^c	2.88					Belfast* ^a	93	53	68.2	4.73		
Spirit Lake	92	49	70.9	6.91					Calais	91	40	64.6	4.28		
Storm Lake	88	51	71.1	0.62					Cornish* ¹	93	50	68.4	5.87		
Stuart	97	54	75.9	8.75					Cumberland Mills	98	42	70.2	4.70		
Tara	99	51	78.0	2.00					Fairfield	90	44	67.2	5.18		
Thurman	93	51	78.7	2.73					Farmington	96	34	67.6	5.07		
Toledo	95	43	73.2	2.27					Gardiner	97	46	70.4	5.48		
Villisca	96	52	74.1	8.18					Kineo	85	50	67.5	7.37		
Vinton* ¹	90 ^c	53	72.9	1.94					Lewiston	98	37	64.0	4.48		
Wapello	100	50	75.0	1.78					Mayfield	90	42	65.6	4.79		
Washington	93	48	71.6	2.82					North Bridgton	96	44	68.4	5.35		
Washta				1.89					Orono	91	41	68.2	4.49		
Waterloo	94	45	72.8	1.61					Petit Menan* ¹	76	54	67.8	4.71		
Waverly	91	45	72.3	1.35					Rumford Falls	90	41	67.8	4.71		
Westbend* ¹	92	55	71.5	8.02					Winslow	94	39	67.3	6.81		
Westbranch	91	45	72.0	3.75					Maryland.						
Westunion	96	55	73.0	2.05					Annapolis	95	60	77.8	4.06		
Whitten* ¹	96	56	72.8	0.42					Bachmans Valley	94	47	74.0	2.92		
Wilton Junction	94	46	74.4	3.24					Berlin	95	59	77.6	5.05		
Winterset	92	51	73.2	6.12					Boettcherville	100	47	75.3	1.63		
Woodburn				4.87					Boonsboro ^a	100	53	77.8	2.28		
Kansas.									Cambridge	98	59	79.2	7.15		
Abilene	98	56	76.6	4.88					Chase	98	46	74.7	3.04		
Achilles				2.52					Chesterstown	91	54	76.2	4.53		
Altoona* ²	96	62	76.0	4.77					Chewsville	96	50	74.6	1.10		
Anthony				2.19					Clear Spring	97	54	74.1	2.41		
Atchison ^a	94	58	75.5	7.53					Coleman	98	54	77.4	3.77		
Atchison ^b * ¹	93	63	76.2	6.35					Collegepark	95	56	76.5	5.90		
Augusta	96	50	77.1	4.36					Cumberland ^a	95	61	79.5	1.66		
Baker	97	55	76.5	6.07					Darlington	90	37	66.8	2.03		
Burlington	94	56	76.2	9.06					Deerpark	93	52	76.8	6.11		
Campbell	101	55	77.8	5.22					Ellicott City	93	53	74.0	2.22		
Centropolis* ¹	100	59	78.5	5.80					Fallston	90	57	74.2	2.02		
Chanute	94	57	78.2	10.05					Frederick	95	58	76.8	3.21		
Colby	100	52	74.0	4.41					Frostburg	98	49	72.0	2.04		
Columbus	95	59	78.0	9.42					Grantsville	92	41	68.3	8.15		
Coolidge	102	54	75.0	4.04					Greatfalls	93	51	75.4	3.31		
Cunningham	102	58	77.2	2.11					Greenspring Furnace	98	50	75.3	1.81		
Dresden	98	55	73.8	5.46					Hancock	100	50	76.2	1.86		
Ellinwood	97	56	74.6	4.30					Harney				4.59		
Englewood	102	61	78.0	7.12					Jewell	91	58	75.5	5.79		
Eskridge	96	58	77.0	7.02					Johns Hopkins Hospital	96	55	76.7	1.85		
Eureka				7.74					Laurel	97	58	76.4	4.72		
Eureka Ranch	98	53	75.0	5.44					McDonogh	94	60	75.8	5.65		
Fall River	95	58	77.6	6.42					Mount St. Marys Coll.	96	58	75.9	1.95		
Fanning	95	45	73.8	5.25					New Market	98	53	76.4	3.78		
Fort Riley	93								Pokomoke City	98	55	77.8	5.48		
Fort Scott	98	58	76.4	4.39					Princess Anne	90	50	75.4	6.26		
Frankfort	97	54	74.8	5.29					Rockhall ^a	94	53	77.4	3.43		
Garden City	101	57	76.2	6.21					Rockhall ^b	92	51	75.4	3.52		
Garfield				6.01					Sharpsburg	96	54	75.8	2.93		
Gibson	97	53	73.6	5.05					Smithsburg ^a	98	52	75.4	0.92		
Gove* ¹	95	60	76.0	6.88					Smithsburg ^b	98	54	75.6	1.03		
Grenola	96	58	77.4	7.41					Solomons	93	61	79.0	4.18		
Hays	96	51	73.6	5.15					Sunnyside	99	39	67.1	3.58		
Horton	94	57	75.8	8.94					Takoma Park	95	51	76.7	5.80		
Hutchinson	95	59	76.5	4.40					Taneytown				2.01		
Independence	97	62	79.5	11.44					Van Bibor	98	58	76.2	2.54		
Lakin	100 ^b	55	76.0	4.20					Westernport	91	50	72.8	2.71		
Lawrence	91	58	75.5	7.08					Woodstock	95	54	75.3	2.68		
Lebanon	97 ^c	47	75.2	8.60					Massachusetts.						
Lebo	93	59	75.8	7.66					Adams	92	45	68.1	3.00		
Macksville	97	58	75.1	5.51					Amherst	89	43	69.4	5.02		
McPherson	100	54	75.7	5.58					Bedford	90	49	70.0	3.35		
Manhattan ^a	98	57	76.2	6.66					Bluehill (summit)	91	52	70.3	4.21		
Manhattan ^b	97	55	76.0	6.28					Cambridge	94	48	72.7	2.46		
Meade	95	55	75.1	10.15					Chestnut Hill	95	48	72.4	3.70		
Medicine Lodge	101	60	79.3	1.21					Cohasset				3.67		
Minneapolis	101	51	77.2	2.21					Concord	94	44	69.8	3.30		
Morantown	91	57	75.4	9.15					East Templeton* ¹	90	56	70.5	4.54		
Mount Hope* ¹	95	61	77.4	5.84					Fall River	87	56	71.1	2.82		
Ness City	102	57	77.3	5.92					Fitchburg ^a * ¹	90	57	70.3	4.47		
Newton	101	58	77.4	5.78					Fitchburg ^b	92	47	70.2	4.23		
Norwich	90	61	78.8	2.11					Framingham	98	45	71.6	3.18		
Oberlin				3.61					Groton	90	44	69.3	3.88		
Olathe	94	56	76.2	8.13					Hyannis* ¹	83	53	69.3	3.52		
Osage City	93	57	75.6	9.60					Jefferson	92	50	71.4	4.82		
Oswego	96	61	79.8	6.01					Lawrence	92	50	71.9	4.46		
Ottawa	94	55	75.7	8.50					Leeds	93	42	69.5	7.01		
Paola	94	55	75.8	4.89					Leicester Hill	90	46	68.6	3.49		
Phillipsburg	100	53	76.6	2.88					Leominster				3.61		
Pratt	100	61	76.7	3.00					Long Plain				3.27		
Rome* ¹	98	62	77.0	1.45					Lowell ^a	94	49	72.6	4.12		
Russell	100	54	75.9	4.25					Lowell ^b	93	47	71.3	3.27		
Salina	98	54	75.9	8.55					Middleboro	88	42	69.4	2.99		
Scott	98	49	74.1	6.60					Monson	89	42	70.3	5.92		
Sedan	95	60	75.4	4.80					New Bedford ^a	85	53	69.4	3.97		
Seneca	95	58	73.4	6.81					New Bedford ^b	87					

TABLE II.—Climatological record of voluntary and other cooperating observers.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Massachusetts—Cont'd.	0	0	0	In.	In.	Michigan—Cont'd.	0	0	0	In.	In.	Mississippi—Cont'd.	0	0	0	In.	In.
Somerset* ¹	92	52	73.9	3.05		Saginaw	96	47	69.6	5.85		Booneville	99	62	70.8	3.20	
South Clinton	93	48	72.4	3.38		St. Ignace	85	48	68.8	1.47		Briars	99	67	71.2	1.72	
Springfield Armory	92	48	72.4	5.37		St. Johns	94	49	70.6	5.63		Brookhaven	102	63	83.2	7.20	
Sterling						St. Joseph	92	50	72.6	2.93		Canton	98	60	80.6	2.46	
Taunton ^c	88	48	69.5	4.44		Sidnaw	96	38	65.5	1.45		Columbus ^a	100	62	81.3	5.54	
Webster						Somerset	92	46	70.7	3.39		Columbus ^b	100	62	81.3	5.27	
Westboro	93	46	72.1	2.50		South Haven	95	49	69.4	2.90		Corinth	97	61	80.4	1.91	
Weston	90	44	70.2	2.98		Stanton	96	45	69.0	5.62		Crystal Springs	100	65	82.4	5.44	
Williamstown	87	44	68.0	5.03		Thomaston	100	50	70.3	3.50		Edwards	99	64	83.3	5.96	
Winchendon						Thornville	90	50	70.8	2.67		Fayette	94	64	82.3	2.80	
Worcester ^b	93	51	72.6	8.57		Thunder Bay Island* ¹⁰	80	58	65.1	4.35		Fayette (near)* ¹	98	71	89.8		
Michigan.						Traverse City	96	47	69.7	4.35		Greenville ^a	96	65	81.8	2.11	
Adrian	95	47	71.4	6.08		Vandalia	96	47	72.6	2.46		Greenville ^b	97	66	82.4	2.10	
Agricultural College	96	48	69.8	2.11		Vassar	95	48	69.0	4.11		Greenwood	95	61	82.2	7.16	
Allegan*	85	45	71.6	6.95		Vermilion Point* ¹⁰	86	44	59.3	.....		Hazlehurst	97	68	83.0	3.05	
Alma	93	46	69.6	1.92		Waspe	93	44	71.6	2.87		Hernando	98	65	80.6	5.58	
Ann Arbor	96	49	71.9	1.92		Waverly	98	.....	.....	1.73		Holly Springs	96	62	80.4	3.99	
Arbela	98	40	67.0	5.13		West Harrisville	85	43	64.7	6.25		Jackson	93	67	82.0	2.68	
Badaxe	88	49	67.6	4.44		Wetmore	91	45	68.8	1.38		Kosciusko	100	.....	.....	6.70	
Baldwin	94	39	68.3	8.48		White Cloud	95	41	68.2	4.65		Lake	97	59	77.6	8.95	
Ball Mountain	98	48	70.0	2.45		Ypsilanti	90	50	70.6	2.97		Leakesville	100	68	81.4	7.60	
Baraga	93	.....	1.59			Ada	94	42	69.0	2.49		Logtown	95	63	80.8	5.57	
Battle Creek	100	47	78.5	2.12		Albert Lea	93	46	72.2	3.96		Louisville	96	58	78.8	3.46	
Bay City	89	50	68.4	7.04		Alexandria	89	43	69.8	2.32		Macon	102	61	82.4	3.64	
Berlin	93	43	67.8	2.93		Ashby	94	41	71.0	1.66		Magnolia	99	67	82.4	2.35	
Berrien Springs	97	45	72.0	3.03		Beardsley	100	58	70.2	2.13		Natchez	98	66	83.4	2.50	
Big Point Sable* ¹⁰	84	52	64.8	.....		Berndtji	93	42	69.6	3.58		Okolona	102	61	83.4	4.88	
Big Rapids	93	48	67.6	10.62		Bird Island	97	44	72.4	1.86		Palo Alto	98	63	81.6	5.20	
Birmingham	95	45	71.3	2.25		Blooming Prairie	91	42	70.8	4.10		Pontotoc	96	58	79.4	7.89	
Boon	91	38	64.2	5.04		Brainerd	95	42	72.0	2.18		Port Gibson	99	62	82.4	2.85	
Calumet	86	46	64.4	2.78		Caledonia	89	45	69.8	3.32		Rosedale ^b	99	60	79.8	3.36	
Carsonville	93	44	67.6	3.15		Camden	95	48	71.5	2.09		Stonington	94	70	81.6	.....
Charlevoix	91	48	66.4	4.71		Campbell	97	37	71.2	0.67		Thornton	.....	.....	.....	5.40	
Cheboygan	90	48	66.0	2.71		Collegeville	91	50	72.4	2.26		Tupelo	.....	.....	.....	5.01	
Clinton	98	47	72.6	2.91		Crookston	98	43	67.8	4.30		University	96	53	79.8	5.79	
Coldwater	94	46	71.5	3.28		Deephaven	91	.....	.....	1.17		Walnut Grove	.....	.....	.....	5.09	
Eagle Harbor	85	43	61.0	2.57		Detroit City	91	89	67.4	2.54		Water Valley* ¹	97	60	79.2	7.86	
East Tawas	86	42	66.4	5.92		Faribault	91	44	70.6	2.47		Waynesboro	98	62	80.4	4.80	
Eloise	94	50	72.8	2.74		Farmington	95	49	71.4	1.88		Westpoint	103	61	83.3	.....
Ewen	95	40	65.9	2.00		Fergus Falls	98	42	70.5	1.89		Windham	100	61	81.2	4.92	
Fairview	91	49	71.8	2.17		Grand Meadow	96	44	71.6	5.36		Woodville	100	65	82.7	1.94	
Fitchburg	94	41	70.8	2.77		Granite Falls ^a	91	45	69.1	0.85		Yazoo City	102	61	83.4	5.00	
Flint	94	43	69.7	3.95		Hallock	91	40	67.0	3.85		Missouri.	.....	.....	.....	.....
Frankfort	90	50	70.6	.....		Lake City	94	42	71.8	1.45		Appleton City	101	58	79.0	7.19	
Gladwin	91	39	67.5	8.55		Lake Jemie	95	44	72.6	1.55		Arthur* ²	.....	62	78.2	5.88	
Grand Rapids	97	48	72.5	3.98		Lakeside	95	45	71.6	0.88		Avalon	92	54	74.4	5.46	
Grape	95	49	73.4	2.18		Lake Winnibigoshish ¹	89	58*	67.1	5.29		Bethany	99	49	74.6	5.08	
Grayling	93	36	66.4	5.05		Leech Lake	92	48	69.0	4.58		Birchtree	96	51	75.2	2.89	
Hanover	96	44	72.0	2.80		Leroy	92	41	70.8	4.41		Boonville	.....	.....	.....	5.10	
Harbor Beach	89	45	65.6	2.05		Long Prairie	90	37	69.4	2.51		Brunswick	90	56	74.7	5.80	
Harrison	91	35	64.8	5.21		Luverne	89	46	70.4	4.53		Carrollton	91	60	76.4	5.21	
Harrisville	88	46	64.2	6.87		Lynd	94	45*	70.4	1.06		Conception	91	58	75.8	9.88	
Hart	95	50	70.0	5.41		Mapleplain ^a	92	45*	71.5	1.17		Cook Station	100	45	75.2	4.45	
Hastings	97	48	70.8	2.74		Milaca	100	39	71.3	2.43		Cowgill ^b	94	50	76.6	6.43	
Hayes	89	49	67.8	3.78		Milan	95	42	70.9	3.14		Darksville	93	56	75.4	4.04	
Highland Station			1.89			Minneapolis ^a	95	43	72.3	2.18		East Lynne* ³	98	52	72.2	5.98	
Hinsdale	94	44	71.2	3.81		Minneapolis ^b	92*	42	71.6	1.55		Edgehill ¹⁵	96	58	76.8	8.88	
Holland* ¹⁰	92	54	70.0	.....		Minnesota City ¹	94	56	78.1	1.49		Eightmile ¹	91	58	79.9	7.07	
Howell	90	40	69.0	.....		Montevideo	93	46	72.6	.....		Elidon	96	51	75.2	8.26	
Humboldt	90	38 ^d	61.4	2.86		Morris	95	46	71.8	1.11		Elmira	98	52	74.4	5.45	
Ionia	96	45	71.2	2.21		Mount Iron	88	46	65.4	5.14		Fairport	.....	.....	.....	4.08	
Iron Mountain	89	42	67.0	2.80		Newfolden	91	42	67.9	9.63		Fayette	94	55	75.0	5.03	
Jackson	98	48	72.3	2.17		New London	96	44	71.6	1.05		Fulton	.....	.....	.....	5.18	
Jeddo	91	47	67.5	3.18		New Richland ¹	93	54	74.1	.....		Galena	.....	.....	.....	6.84	
Kalamazoo	98	48	71.8	3.22		New Ulm	97	45	75.5	0.47		Gallatin ¹	96	57	75.8	4.24	
Lake City	94	42	66.6	6.05		Park Rapids	92	41	66.4	3.42		Gayoso	98	54	79.6	4.67	
Lansing	95	48	70.6	2.92		Pine River	91	48	68.2	2.97		Glasgow	98	56	76.2	5.59	
Lapeer	95	41	69.2	2.17		Pipestone	89	46	69.3	2.48		Gorin	.....	.....	.....	8.93	
Ludington	88	40	64.2	4.45		Pleasant Mounds	89	48	69.7	2.46		Halfway	95	55	75.6	3.08	
Luzerne	93	36	64.9	5.81		Pokegama Falls	90	37	66.0	3.70		Harrisonville	95	55	75.4	4.98	
Mackinaw	84	49	65.2	2.44		Reeds	.....	.....	.....	1.98		Liberty	92	54	75.3	5.87	
Madison	94	49	72.8	2.52		Rolling Green	89	49	70.9	2.48		Hermann	.....	.....	.....	1.98	
Mancelona	95	41	66.8	1.80		Roseau	98	38	66.8	6.80		Houston	97	49	75.6	3.80	
Manistee	89	40	65.9	4.41		St. Charles	91	45	71.2	1.62		Houston (near)	.....	.....	.....	3.61	
Manistique	85	45	68.7	1.13		St. Cloud	90	46	70.8	4.51		Irena	.....	.....	.....	6.68	
Menominee	90	50	68.8	5.38		St. Peter											

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Missouri—Cont'd.</i>																	
Nevada.....	91	57	75.8	8.85	In.	Callaway.....	98	44	72.0	1.40	In.	Spragg.....	o	o	o	Ins.	1.98
New Haven.....	97	56	77.4	4.72		Camp Clarke.....	103	48	75.8	2.26		Springview.....	105	48	76.0	2.61	
New Madrid.....	98	60	81.0	6.63		Central City.....	.....	.....	8.44			Stanton*.....	92	58	72.2	3.25	
New Palestine.....	96	54	75.6	3.16		Chester.....	.....	.....	6.18			State Farm.....	97	48	74.4	1.94	
Oakfield.....	96	58	76.6	5.84		Clatonia.....	94	54	75.6	3.77		Strang.....	.....	.....	2.45		
Olden.....	98	52	74.0	2.90		Cody.....	.....	.....	0.04			Stratton.....	.....	.....	2.64		
Oregon a.....	94	57	75.4	8.65		Columbus.....	91	51	72.5	4.11		Superior*.....	100	64	79.0	5.20	
Oregon b.....	97	58	77.2	8.84		Creighton.....	95	45	72.9	2.55		Syracuse.....	.....	.....	1.81		
Palmira*.....	94	60	77.2	4.12		Crete.....	93	54	73.5	3.71		Tablerock.....	98	51	75.5	6.06	
Phillipsburg*.....	99	64	76.5	1.74		Culbertson.....	.....	.....	8.95			Tecumseh*.....	92	52	72.2	5.15	
Pickerling*.....	99	70	70.7	7.35		Curtis a.....	99	58	73.8	5.70		Tecumseh c.....	92	52	72.2	5.97	
Poplarbluff.....	96	59	78.8	7.28		David City.....	92	57	74.6	4.50		Theford.....	.....	.....	8.32		
Potosi.....	97	43	73.2	4.49		Dawson.....	99	44	75.7	8.15		Turlington.....	99	54	74.8	1.85	
Princeton.....	102	51	78.2	8.76		Eden.....	.....	.....	7.68			Valentine.....	104	48	75.6	1.84	
Rhinelander.....	98	51	76.7	3.14		Elba.....	.....	.....	2.10			Valparaiso.....	.....	.....	2.61		
Richmond.....	91	57	75.2	4.40		Edgar a.....	.....	.....	2.87			Wakefield.....	93	46	72.4	0.88	
Rolla.....	.....	.....	2.72	.....		Ewing.....	101	58	75.2	1.70		Wauneta.....	.....	.....	2.95		
St. Charles.....	95	60	78.2	2.31		Fairbury.....	96	50	75.0	1.08		Weeping Water*.....	98	49	72.3	3.11	
St. Joseph.....	.....	.....	5.26	.....		Fairfield.....	97	58	74.4	2.45		Wellfleet.....	98	50	74.0	4.11	
Sarcoxie*.....	100	66	76.4	3.47		Fairmont.....	100	54	72.0	0.97		Westpoint.....	98	50	74.0	3.68	
Sedala.....	97	54	75.9	2.11		Franklin.....	98	58	75.4	3.70		Whitman.....	94	54	72.0	0.15	
Seymour.....	93	53	74.4	2.98		Fremont.....	90	53	72.0	2.95		Willard.....	98	56	76.5	1.88	
Shelbina.....	.....	.....	6.90	.....		Geneva.....	96	53	74.7	2.61		Wilsonville*.....	98	56	76.5	6.10	
Shirkton.....	96	55	77.2	4.78		Genoa.....	97	55	74.2	1.71		Wisner.....	.....	.....	2.75		
Steffenville.....	98	55	75.8	5.65		Gering.....	104	49	72.8	1.90		Wymore*.....	98	58	76.9	4.93	
Stellada.....	95	48	75.9	4.72		Gordon.....	.....	.....	1.50			York*.....	97	60	74.4	5.35	
Sublett.....	97	50	75.9	5.23		Gothenburg.....	97	52	71.9	1.80		<i>Nevada.</i>	.....	.....	.....
Trenton.....	91	55	74.4	3.95		Grand Island a.....	.....	.....	1.61			Battle Mountain*.....	99	53	78.0	T.	
Unionville.....	100	55	78.5	2.55		Grand Island b.....	98	54	74.2	2.48		Beowawe*.....	100	60	77.2	T.	
Vichy.....	102	59	79.4	3.15		Grand Island c.....	98	49	74.0	1.48		Candelaria.....	98	54	76.0	T.	
Warrensburg.....	95	55	77.2	2.17		Imperial.....	106	46	73.7	8.12		Carlin*.....	98	48	71.4	0.15	
Warrenton.....	97	54	77.0	2.99		Johnstown.....	.....	.....	0.25			Clover Valley.....	.....	.....	0.48		
Wheatland.....	.....	.....	4.14	.....		Kearney.....	.....	.....	4.90			Cranes Ranch.....	.....	.....	0.04		
Willow Springs.....	96	50	75.8	4.01		Kennedy.....	105	36	72.2	3.18		Elko (near).....	100	34	66.6	.....
Wylie.....	94	56	77.3	7.68		Kimball.....	91	48	69.1	2.70		Ely.....	98	45	70.3	0.61	
Zeltonia.....	99	49	76.3	2.08		Kirkwood*.....	101	51	72.4	4.10		Empire Ranch.....	102	48	77.1	0.05	
<i>Montana.</i>	.....	.....	.....	.....		Lexington.....	96	48	71.0	4.06		Fencelon*.....	97	40	64.3	0.10	
Adel.....	91	26	58.6	1.27		Lincoln b.....	98	54	74.5	1.47		Golconda*.....	100	49	69.3	0.08	
Billings.....	102	44	71.5	T.		Lincoln d.....	95	52	75.6	1.46		Halleck*.....	106	52	71.5	T.	
Boulder.....	95	39	63.6	0.80		Lodgepole.....	102	48	70.8	2.65		Hawthorne b.....	99	53	75.6	0.02	
Butte.....	88	42	65.6	0.90		Loup*.....	100	46	71.3	3.88		Hot Springs.....	.....	.....	0.06		
Canyon Ferry.....	98	47	69.5	1.74		Lynch.....	100	46	73.4	3.37		Humboldt*.....	96	60	74.2	T.	
Chinook.....	100	40	68.2	1.84		Lyons.....	.....	.....	Lee.....	.....		Lee.....	98	42	66.4	0.01	
Columbia Falls.....	94	38	65.4	1.86		McCook.....	.....	.....	Lewers Ranch.....	98	59	77.5	T.				
Corvallis.....	98	.....	0.02	.....	McCool.....	.....	.....	Lo Vegas.....	95	59	76.5	.....				
Crow Agency.....	96	42	69.2	1.98		Madison.....	92	54	71.4	3.01		Lovelooks*.....	100	60	76.5	0.00	
Dearborn Canyon.....	91	40	67.5	1.99		Madrid*.....	106	55	77.8	3.03		Martins.....	92	40	65.8	0.00	
Deer Lodge.....	97	32	64.8	.....	Marquette.....	.....	.....	Mill City*.....	110	50	74.9	0.05					
Dell.....	98	32	62.2	0.03		Merriman.....	.....	.....	Monitor Mill.....	94	46	70.4	0.58				
Fort Benton.....	101	47	68.2	1.30		Minden a.....	94	53	72.4	3.28		Palisade*.....	101	60	75.8	0.11	
Fort Keogh.....	102	42	71.4	2.20		Minden b.....	94	53	72.4	3.28		Palmetto.....	96	43	69.0	0.01	
Fort Logan.....	92	38	63.2	T.	Monroe.....	.....	.....	Reno State University.....	98	42	69.6	0.22					
Glendive.....	103	42	72.0	5.42		Nebraska City b.....	92	58	74.4	2.95		Sodaville.....	103	54	80.2	0.07	
Glenwood.....	94	36	64.5	0.26		Nebraska City c.....	92	58	74.4	2.97		Tecoma*.....	100	58	72.2	T.	
Greatfalls.....	96	46	68.4	1.70		Nemaha*.....	99	61	76.0	5.48		Toano*.....	98	56	71.1	0.40	
Kipp.....	99	34	68.8	2.08		Nesbit.....	105	48	71.8	3.42		Tuscarora.....	90	43	68.0	0.38	
Manhattan*.....	93	36	65.7	0.02		Norfolk b.....	94	50	72.7	2.16		Tybo.....	97	52	75.4	0.07	
Martinsdale.....	95	39	66.4	2.08		North Loup.....	.....	.....	Verdi*.....	104	55	73.2	0.00				
Marysville.....	92	38	64.8	0.37		Oakdale.....	95	50	72.4	1.85		Wadsworth*.....	106	40	71.8	0.10	
Missoula.....	100	42	69.4	1.05		Odell*.....	96	56	79.6	4.70		Wells.....	99	40	68.2	0.37	
Ovando.....	97	34	64.3	1.37		O'Neill.....	98	49	71.5	4.48		<i>New Hampshire.</i>	.....	.....	.....
Parrot.....	95	44	66.4	0.38		Ord.....	.....	.....	Alstead*.....	90	49	72.2	5.80				
Plains.....	97	44	67.8	0.09		Osceola.....	.....	.....	Berlin Mills.....	96	35	66.0	5.48				
Poplar.....	101	46	71.5	1.24		Ough.....	.....	.....	Bethlehem.....	99	42	66.4	5.49				
Ridge.....	96	35	67.0	1.68		Palmer b.....	.....	.....	Brookline*.....	92	42	71.8	5.36				
St. Pauls.....	94	43	68.2	1.70		Palmyra.....	.....	.....	Clarendon.....	101	38	70.8	3.79				
Troy.....	98	37	64.0	0.87		Paxton.....	.....	.....	Concord.....	97	39	69.6	4.35				
Utica.....	102	40	64.8	2.57		Plattsburgh a.....	.....	.....	Durham.....	96	45	69.4	3.99				
Wibaux.....	95	35	68.3	2.15		Plattsburgh b.....	.....	.....	Grafton.....	95	33	66.2	7.25				
Yale.....	95	38	66.4	1.44		Pleasant Hill.....	.....	.....	Hanover.....	95	39	67.8	4.49				
<i>Nebraska.</i>	.....	.....	.....	.....		Pleasanton.....	.....	.....	Keene.....	98	37	68.4	5.28				
Agee*.....	100	55	72.5	4.34		Pleasanton.....	.....	.....	Littleton.....	92	39	66.1	4.94				
Albion.....	91	48	70.8	2.17		Pleasanton.....	.....	.....	Nashua.....	95	43	71.5	8.01				
Alliance.....	.....	.....	1.85	.....		Pleasanton.....	.....	.....	Newton.....	93	41	69.2	3.82				
Alma*.....	96	54	73.9	2.79		Pleasanton.....	.....	.....	North Conway.....	96	40	68.2	4.25				
Ansley.....	95	48	71.4	4.86		Pleasanton.....	.....	.....	Peterboro.....	91	37	67.8	4.40				
Arapaho*.....	100	58	76.5	1.10		Pleasanton.....	.....	.....	Plymouth.....	94	36	68.4	3.44				
Arborville*.....	97	56	72.9	3.03		Pleasanton.....	.....	.....	Sanbornton.....	92	40	67.1	5.94				
Ashland a.....	95	53	74.8	3.54		Pleasanton.....	.....	.....	Stratford.....	94	35	66.6	4.10				
Ashland b*.....	101	64	77.8	3.87		Pleasanton.....	.....	.....	Warner.....	.....	.....	.....	8.40				
Ashton.....	.....															

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.										
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.									
New Jersey—Cont'd.	°	°	°	Ins.	Ins.	New York—Cont'd.	°	°	°	Ins.	Ins.	New York—Cont'd.	°	°	°	Ins.	Ins.									
Chester.....	93	46	71.4	4.80		Canajoharie.....	91	42	68.9	4.01		Williamson.....	°	°	°	4.38										
Clayton.....	95	48	75.4	6.61		Canton.....	89	42	68.4	3.57		North Carolina.														
College Farm.....	95	51	74.9	6.32		Carmel.....	89	50	71.6	5.28		Abshers.....	96	44	76.6	3.99										
Deckertown.....	93	44	71.4	6.30		Carvers Falls.....	94	40	69.4	3.77		Asheville.....				3.33										
Dover.....	98	44	73.8	5.25		Catskill.....	91	49	72.0	3.75		Biltmore.....	94	45	73.8	4.97										
Egg Harbor City.....	95	47	74.6	5.75		Cedarhill.....	101	45	74.3	3.66		Bryson City.....				4.57										
Elizabeth.....	96	50	75.6	6.72		Charlotte* ¹	91	52	70.6	....		Chapel Hill.....													
Englewood.....	94	50	74.1	6.27		Chenango Forks.....				2.70		Currituck Inlet.....				6.56										
Flemington.....	98	47	74.1	4.11		Cherry Creek.....				3.57		Edenton.....	95	55	79.3	5.98										
Freehold.....	91	53	73.3	6.27		Coopersstown.....	89	45	68.0	3.92		Experimental Farm.....	95	58	77.8	9.62										
Friesburg.....	95	51	76.1	7.29		Cortland.....	93	40	69.6	4.89		Fairbluff.....				8.87										
Hammonton.....						Cutchogue.....	88	50	71.7	5.74		Fayetteville.....														
Hanover.....	91	46	72.8	5.24		DeKalb Junction.....				2.74		Flatrock.....	93	54	71.4	3.54										
Hightstown.....	94	53	75.5	5.17		Dryden.....	97	40	69.0	4.03		Goldsboro.....	95	54	77.8	9.45										
Imlaystown.....	98	58	77.0	4.44		Easton.....				3.70		Greensboro.....	96	54	78.5	5.77										
Lebanon.....						Ellenburg Depot* ¹	84	52	65.6	3.50		Greenville.....	95	53	78.0	10.23										
Moorestown.....	95	50	75.0	5.69		Elmira.....	93	50	72.8	2.69		Henderson.....	95	55	77.0	8.39										
Mount Pleasant.....						Fayetteville.....				3.66		Hendersonville.....	95	47	72.4	4.07										
Newark.....	94	49	73.8	4.85		Fleming.....	93	50	71.2	4.48		Horse Cove.....	91	51	73.1	4.76										
New Brunswick.....	96	50	76.0	6.54		Fort Niagara.....	92	50	67.7	2.95		Lenoir* ¹	93	54	75.6	2.00										
Newton.....	95	48	72.1	8.43		Franklinville.....	91	37	67.4	3.16		Linville.....	84	40	65.4	3.39										
Ocean City.....	90	54	70.4	5.83		Fulton.....				3.52		Littleton.....	97	52	78.0	5.92										
Oceanic.....	88	55	73.4	5.89		Garrattsville.....	89	41	67.0	5.48		Louisburg.....	98	53	77.9	8.39										
Paterson.....	97	51	74.9	6.05		Glens Falls.....	95	46	71.8	2.86		Lumberton.....	97	57	79.3	9.03										
Perth Amboy.....	95	55	76.1	5.78		Gloversville.....	94	40	69.1	4.09		Mana.....				8.86										
Plainfield.....	95	46	74.0	6.65		Greenwich.....	94	44	71.2	2.30		Marion.....	99	51	78.2	2.12										
Rancocas.....						Haskinville.....				3.70		Marshall.....	92	49	73.8	3.30										
Rivervale.....	92	44	71.8	3.61		Hemlock Lake.....	93	51	71.3	4.36		Mocksville.....	98	52	77.2	2.99										
Rocktown.....						Honeymead Brook.....	90	48	70.6	9.44		Moncure.....	98	53	77.4	8.76										
Roseland.....	93	44	72.0	5.58		Hopewell.....	89	41	70.9	4.84		Monroe.....	101	47	77.6	4.59										
Salem.....	98	52	76.8	6.34		Humphrey.....	89	48	69.0	4.15		Morganton.....	98	50	76.2	4.23										
Somerville.....	95	47	75.1	4.71		Ithaca.....	98	46	70.8	3.46		Mountainairy.....	97	49	74.0	3.72										
South Orange.....	92	49	73.7	3.70		Jamestown.....	89	48	69.6	4.48		Mount Pleasant.....	102	54	78.4	2.74										
Staffordville.....						Keene Valley.....	90	36	66.4	3.91		Murphy.....				4.51										
Toms River.....	95	45	74.3	5.52		King Station.....				2.29		Newbern.....	95	59	78.3	7.84										
Trenton.....	96	51	77.6	4.31		Lake Hill.....	88	40	66.8	6.19		Oakridge.....	97	48	76.6	4.45										
Tuckerton.....	91	48	74.3	6.47		Liberty.....	85	50	67.4	7.57		Pantego.....				8.94										
Vineyard.....	98	52	76.4	7.81		Little Falls.....	92	46	69.2	2.38		Patterson* ¹	94	50	71.1	2.95										
Woodbine.....	92	50	74.2	4.08		Lockport.....	91	52	69.7	1.27		Pittsburgh.....	97	50	76.8	7.79										
New Mexico.																										
Albert.....	101	58	78.4	5.66		Lyons.....	93	53	71.0	4.20		Rockingham.....	102	55	79.3	4.04										
Albuquerque.....	104	58	76.6	5.24		Madison Barracks.....	92	46	68.4	0.70		Roxboro.....	95	52	75.0	6.22										
Alma.....	96	48	74.9	5.24		Mayle.....				2.29		Salem.....	96	49	77.3	6.73										
Aztec.....	95					Middletown.....	90	51	71.2	8.29		Salisbury.....	102	54	79.3	7.87										
Bell Ranch.....						Mohonk Lake* ¹	94	55	70.0	6.33		Saxon.....	100	53	76.0	4.41										
Bernalillo.....	96	54	77.0	3.21		Mount Morris.....	98	47	72.1	3.07		Selma.....	99	49	77.9	12.15										
Bluewater.....	92	45	69.6	4.45		Newark Valley.....				3.07		Settle.....	98	47	70.0	3.09										
Cambray.....						New Lisbon.....	80	35	65.6	3.19		Sloan.....	98	58	78.2	11.16										
Clayton.....	92	54	71.5	10.51		North Germantown.....	92	50	72.1	5.19		Soapstone Mount.....	98	52	76.5	3.57										
Deming.....						North Hammond.....	94	32	70.0	2.46		Southern Pines a.....	99	52	79.1	10.65										
East Las Vegas.....	92	51	70.8	7.09		North Lake.....	88	41	65.0	6.18		Southern Pines b.....	97	52	78.5	9.07										
Eddy.....	106	60	80.6	1.00		Number Four.....	87	38	64.2	3.84		Southport.....	89	63	79.7	7.47										
Engle.....	96	60	76.2	3.67		Nunda.....	98	47	74.2	2.05		Springhope* ¹	92	54	75.6	9.08										
Espanola.....	98	52	72.2	1.66		Ogdensburg.....	98	48	68.0	3.11		Tarboro.....	100	48	78.9	8.03										
Folsom.....	93	40	68.8	5.34		Oneonta.....	93	39	68.7	4.05		Waynesville.....	92	45	69.6	2.66										
Fort Bayard.....	98	54	72.4	4.66		Oxford.....	91	39	69.3	5.22		Weldon a.....	95	53	77.6	10.80										
Fort Union.....	90	47	68.1	3.98		Penn Yan.....	93	48	72.8	3.44		Weldon b.....				10.27										
Fort Wingate.....	92	47	70.2	3.25		Perry City.....	98	42	69.2	4.30		North Dakota														
Gage.....						Phenix.....				2.37		Amenia.....	100	41	69.0	2.01										
Galisteo.....	97	54	72.2	4.64		Pine City.....				3.09		Ashley.....	99	36	68.0	1.95										
Gallinas Spring.....	101	45	74.0	6.16		Plattburg Barracks.....	96	35	64.2	3.51		Berlin ¹														
Gila.....	99	58	78.6	5.15		Port Byron.....	92	46	70.0	2.87		Buxton.....	90	40	66.3	2.24										
Hillsboro.....	96	58	78.2	2.22		Port Jervis.....	91	45	71.5	10.49		Church's Ferry.....	102	37	68.3	1.80										
Las Vegas Hot Springs.....	91	49	69.1	4.73		Poughkeepsie.....	93	42	71.6	5.56		Coal Harbor.....	96	40	69.4	3.60										
Lordship.....						Primrose.....	92	53	72.4	6.29		Devils Lake.....	94	40	68.0	2.28										
Los Lunas.....	97	58	75.0	2.75		Ridgeway.....	93	53	70.9	2.80		Dickinson.....	97	38	68.7	2.79										
Lower Penasco.....	92	53	71.8	5.89		Rome.....	92	45	68.4	2.85		Donnybrook.....	96			8.40										
Mesilla Park.....	101	55	76.6	4.54		Romulus.....	95	50	71.8	2.95		Dunseith.....	92			3.38										
Monero.....	95	45	65.6	2.97		Rose.....				3.98		Ellendale.....	100	38	71.1	2.18										
Raton.....	98	49	68.7	7.47		St. Johnsville.....	96	42	70.7	4.31		Forman.....	99	40	71.7	1.81										
Rincón.....	100	58	79.2	1.06		Salisbury Mills.....				3.76		Fort Berthold.....	94	47	71.2	4.04										
Rowell.....	100	59	76.7	4.37		Saranac Lake.....	90	35	66.1	2.50		Fort Yates.....	108	38	71.0	1.17										
San Marcial.....	98	52	77.2	2.24		Saratoga Springs.....	92	45	69.8	3.65		Fullerton ¹	100*	34	67.3	1.00										
Socorro.....	100	53	77.1	3.18		Schenectady.....	98	49	73.4	5.02		Gallatin.....	100	35	68.1	1.14										
Strauss.....						Scottsville.....	98	52	72.2	3.54		Grafton.....	91	44	66.3	2.04										
White Oaks.....	92	50	71.7	5.53		Setauket.....	88	52	72.2	3.10		Hamilton.....	96	37	67.0	3.48</										

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>North Dakota—Cont'd.</i>	0	0	0	In.	In.	<i>Ohio—Cont'd.</i>	0	0	0	In.	In.	<i>Oregon—Cont'd.</i>	0	0	0	In.	In.
Wahpeton	99	40	70.8	1.28		Pulse	...	...	...	2.66		Merlin ^{*1}	100	52	71.0	0.00	
Willow City	100	33	67.4	1.00		Richwood	101	51	77.6	6.28		Monmouth ^a	98	55	72.0	0.08	
Woodbridge	96	37	65.8	1.01		Ridgeville Corners	98	42	72.3	5.45		Monmouth ^b	95	39	64.5	0.81	
<i>Ohio.</i>						Ripley	98	51	75.9	2.91		Monroe	94	42	65.0	T.	
Akron	94	46	72.8	3.57		Rittman	94	42	71.0	5.57		Mount Angel	93	46	67.2	0.08	
Ashland	95	48	73.8	3.92		Rockyridge	97	50	73.2	3.85		Nehalem	...	...	...	0.24	
Ashstabula	90	50	70.6	2.75		Rosewood	95	45	75.2	5.52		Newberg	99	40	67.6	0.22	
Atwater	...	...	3.38			Seaman	105	43	77.7	5.20		Newbridge	103	37	69.0	T.	
Bangorville	94	48	73.8	5.45		Shenandoah	97	49	78.1	3.68		Newport	98	42	56.0	0.59	
Bellefontaine	95	51	74.8	5.46		Sidney	99	49	76.8	6.21		Pendleton	107	42	73.4	0.03	
Bement	...	...	5.21			Sinking Spring	91	52	74.9	2.65		Placer	...	...	...	0.00	
Benton Ridge	99	46	73.8	4.21		Somerset	97	...	...	4.11		Prineville	98	32	64.8	T.	
Bethany	100	48	76.9	4.32		Springboro	...	...	...	4.68		Riddle ^a	95	42	66.8	0.00	
Bligprairie	92	51	73.6	3.79		Strongsville	...	...	...	5.75		Riverside	106	28	68.4	0.15	
Binola	...	...	4.65			Thurman	98	50	76.1	2.38		Salem ^b	96	35	66.0	0.00	
Bladensburg	92	45	72.0	4.53		Tiffin	95	52	74.0	4.56		Sheridan ^a	94	50	65.1	0.00	
Bloomingburg	95	52	75.6	5.84		Upper Sandusky	96	49	74.3	6.08		Silver Lake	95	26	68.5	0.00	
Bowling Green	95	47	72.4	4.33		Urbana	94	50	73.8	5.12		Silverton ^a	94	58	68.9	0.30	
Bucyrus	96	46	73.8	5.01		Vanceburg	95	51	75.8	1.51		Siskiyou ^{*1}	89	56	71.0	0.00	
Cambridge	93	44	71.8	4.66		Vauvert	96	...	...	6.00		Sparta	94	39	67.2	0.17	
Camp Dennison	97	52	76.6	3.47		Vermillion	94	50	72.2	3.11		Springfield ^a	88	51	66.4	0.00	
Canal Dover	97	45	73.9	3.53		Vickery	98	47	73.0	3.25		Stafford	97	45	67.2	1.15	
Canton	95	49	73.7	4.69		Walnut	...	...	...	4.92		The Dalles	99	45	72.1	0.00	
Carrolton	95	46	73.2	4.15		Warsaw	104	44	74.8	4.27		Tillamook Rock	...	...	...	0.62	
Cedarville	...	...	6.51			Wauseon	97	48	73.4	4.58		Toledo	85	37	60.3	T.	
Celina	96	44	71.8	4.06		Waverly	97	50	77.4	3.43		Umatilla	...	...	...	0.02	
Chillicothe	95	50	75.8	3.87		Waynesville	96	48	74.3	3.35		Vale	101	39	70.6	0.02	
Circleville	94	51	75.2	3.88		Wellington	96	48	73.2	4.15		Vernonia	107	38	68.4	0.02	
Clarksville	98	50	75.6	6.02		Westerville	93	50	73.4	4.88		Westfork ^a	100	48	68.8	0.00	
Cleveland a	91	54	71.7	5.46		Willoughby	...	...	...	2.31		Weston	97	42	66.8	0.04	
Cleveland b	98	54	72.3	4.70		Wooster	94	45	71.1	3.78		Williams	93	38	66.2	0.00	
Coalton	95	44	74.7	8.30		Zanesville	...	...	...	4.55		<i>Pennsylvania.</i>	...	...	...	...
Colebrook	98	48	70.2	3.53		<i>Oklahoma.</i>	...	...	...	...		Altoona	91	46	70.9	3.67	
Dayton a	99	48	76.0	4.10		Arapaho	99	62	80.6	4.13		Aqueduct	...	...	...	1.80	
Dayton b	99	48	74.1	4.56		Beaver	103	59	78.0	5.79		Athens	96	41	71.7	3.90	
Defiance	95	46	73.1	4.22		Burnett	96	60	79.8	2.65		Beaver Dam	...	...	...	2.76	
Delaware	97	44	74.1	5.45		Clifton	93	60	78.8	4.57		Bethlehem	...	...	...	3.08	
Demos	92	52	73.1	8.70		Fort Reno	95	61	78.2	2.42		Brookville	...	...	...	5.58	
Dupont	93	46	72.2	4.05		Fort Sill	95	61	78.0	14.00		Browers Lock	...	...	...	2.29	
Elyria	97	47	73.0	4.82		Guthrie	95	64	80.3	3.42		Butler	91	44	70.6	3.57	
Findlay	98	49	74.7	5.08		Hennessey	64	...	...	6.94		Carlisle ^a	95	48	69.6	2.60	
Frankfort	92	46	73.4	4.50		Hopeton	98	63	79.2	5.08		Cassandra	88	47	69.0	4.34	
Garretttsville	95	43	70.6	2.68		Kingfisher	97	60	80.4	5.01		Cedarrun	...	...	...	0.31	
Granville	94	44	71.8	5.47		Mangum	93	63	77.6	6.01		Centerhall	89	45	70.8	2.36	
Gratiot	92	49	73.0	3.64		Newkirk	98	62	78.2	5.33		Chambersburg	94	...	...	3.01	
Greenfield	94	55	76.4	4.10		Norman	103	60	80.6	1.35		Coatesville	100	47	75.8	3.46	
Greenhill	94	48	70.6	5.19		Pawhuska	97	60	78.0	11.29		Confluence	...	...	...	6.64	
Greenspring	95	60	78.2	4.41		Perry	96	63	79.2	5.87		Coopersburg	91	50	73.2	4.53	
Greenville	90	49	72.9	2.70		Prudence	98	...	...	7.01		Davis Island Dam	...	...	...	3.00	
Hackney	96	49	75.2	6.78		Putnam	98	50	76.9	8.55		Derry Station	97	48	73.4	4.50	
Hanging Rock	96	51	77.8	2.87		Sac and Fox Agency	97	60	78.8	5.39		Driftwood	...	...	...	3.67	
Hillhouse	98	45	70.8	3.64		Stillwater	98	61	79.4	4.54		Duncannon	...	...	...	2.64	
Hillsboro	92	48	73.3	2.73		Waakomis	100	60	80.2	7.36		Dushore	93	35	68.8	2.03	
Hiram	93	53	72.8	2.19		Winnview	99	60	80.2	7.24		East Bloomsburg	...	...	...	3.69	
Hudson	97	46	72.4	4.20		Woodward	95	65	82.6	...		East Mauch Chunk	95	48	73.2	4.06	
Jacksonboro	97	58	76.8	3.95		<i>Oregon.</i>	...	...	...	...		Easton	91	50	74.0	2.89	
Kenton	99	49	75.7	3.28		Albany ^b	...	...	...	0.03		Ellwood Junction	...	...	...	2.79	
Killbuck	93	49	72.6	3.20		Arlington	102	42	75.1	0.00		Emporium	98	45	70.4	4.32	
Lancaster	92	45	73.8	5.19		Ashland ^b	96	40	68.8	0.00		Everett	91	48	72.0	3.33	
Leipsic	99	44	71.6	6.45		Aurora	98	51	68.8	0.00		Farrandsville	...	...	...	2.23	
Levering	92	45	71.6	6.45		Aurora(near)	94	41	64.2	0.43		Forks of Neshaminy ^{*1}	96	64	76.0	4.49	
Logan	99	50	76.0	3.58		Bandon	72	48	56.0	0.10		Franklin	94	43	71.2	4.75	
Lordstown	94	43	70.6	3.17		Bay City	77	43	60.4	0.44		Frederick	...	...	...	3.27	
Lowell	99	47	76.6	3.28		Beulah	104	36	70.3	0.35		Freeport	...	...	...	3.94	
McArthur	94	44	73.7	3.28		Blalock	104	50	73.0	T.		Girardville	...	...	...	4.99	
McConnellsburg	95	49	74.7	5.60		Brownsville ^a	91	49	68.8	0.00		Grampian	90	50	71.4	3.84	
Mansfield	92	54	74.0	4.75		Bullrun	92	44	64.6	0.28		Greensboro	98	50	74.2	6.25	
Marietta	98	54	74.0	5.98		Burns (near)	98	38	68.0	T.		Hamburg	98	54	74.2	6.30	
Marion	98	49	75.3	4.73		Cascade Locks	96	48	68.4	0.08		Hawley	92	46	68.8	5.25	
Medina	99	47	73.0	2.51		Comstock ^a	95	52	68.2	T.		Hawthorn	99	46	71.2	6.95	
Mifordton	96	46	72.4	3.87		Coquille River	...	...	...	0.02		Hewis Island Dam	...	...	...	2.50	
Milligan	96	45	74.0	4.83		Fairview	88	40	60.6	T.		Huntingdon a	95	45	72.4	3.89	
Millport	92	44	71.0	5.26		Falls City	94	40	68.4	0.07		Huntingdon b	98	40	70.0	3.68	
Montpelier	95	46	72.3	3.95		Gardiner	73	46	68.8	0.20		Irwin	...	...	...	4.63	
Napoleon	94	45	70.6	5.19		Glenora	98	40	64.1	0.30		Johnstown	97	48	73.4	3.20	
New Alps	91	51	73.2	4.20		Government Camp	89	33	55.9	0.52		Karthaus	...	...	...	1.58	
New Holland	95	47	73.0	3.07		Grants Pass	99	40	69.6	0.00		Keating	...	...	...	3.27	
New Paris	94	48	74.4	3.26		Happy Valley	97	30	63.6	0.04		Kennett Square	97	49	74.7	2.98	
New Richmond	98	54	76.7	3.74		Heppner	99	40	6								

TABLE II.—*Climatological record of voluntary and other cooperating observers*—Continued.

Stations.			Temperature. (Fahrenheit.)			Precipita- tion.			Stations.			Temperature. (Fahrenheit.)			Precipita- tion.			Stations.			Temperature. (Fahrenheit.)			Precipita- tion.		
Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.				
<i>Pennsylvania—Cont'd.</i>						<i>Ins.</i>		<i>Ins.</i>				<i>South Dakota—Cont'd.</i>			<i>Ins.</i>		<i>Ins.</i>		<i>Texas—Cont'd.</i>			<i>Ins.</i>		<i>Ins.</i>		
Renovo b	93	45	72.3	3.13			Forest City	110	45	76.5	0.47		Anna	102	59	80.3	2.04									
Ridgway	93	41	69.6	5.84			Fort Meade	103	47	77.1 ^o	0.29		Anson													
Saegerstown	93	43	69.3	3.04			Gann Valley	107	42	74.7	1.45		Arthur	101	65	82.6	2.68									
St. Marys	93	42	69.5	4.18			Gary	98	57	77.2	2.55		Austin a	101	64	82.6	4.20									
Salem Corners	93	42	69.5	4.73			Goudyville	104	40	71.5	1.24		Austin b ^o	99	64	81.2	1.33									
Scranton	94	42	71.2	4.73			Highmore	104	45	78.0	1.81		Ballinger	101	62	80.5	1.73									
Seisholtzville	94	46	73.4	2.42			Hitchcock						Beaumont	101	75	87.9	0.65									
Seisnigrove a	94	40	69.6	5.04			Hotch City	101	44	78.8	0.58		Bianco	105	68	84.0	1.93									
Shinglehouse	96	40	69.6	1.92			Hot Springs	97	39	71.4	1.98		Boerne ⁺	92	67	82.2	3.29									
Sinnamahoning	90	38	67.6	5.40			Howard	111	48	74.4	1.10		Brazoria	94	72	81.8	1.89									
Smethport	90	38	67.6	4.50			Interior	104	37	72.1	1.69		Brenham	97	68	82.2	2.76									
Smiths Corners	93	42	68.6	4.60			Kimball	107	44	74.2	8.19		Brighton	97	70	84.2	0.20									
Somerset	93	43	71.6	2.39			Leola	89					Brownwood													
South Eaton	91	50	72.0	2.14			Leslie	108	36	73.8	1.05		Burnet ⁺	100	63	79.4	1.99									
State College	91	50	72.0	1.26			Mellette	106	40	74.0	2.08		Camp Eagle Pass													
Sunbury	97	61	77.0	4.26			Mennos	96	45	71.6	3.59		Childress	95	66	78.8	5.86									
Swarthmore	97	61	75.4	4.56			Millbank	100	46	71.4	2.28		College Station	94	65	81.2	1.50									
Swiftwater	92	41	70.7	2.47			Mitchell	98	45	71.6	2.93		Colorado													
Towanda	92	41	70.7	1.87			Montrose ^c	90	47	70.8	0.97		Columbia	93 ^d	68	81.5 ^d	4.92									
Trout Run	92	50	73.9	6.44			Oelrichs	105	49	74.0	2.80		Conroe ^c	98	63	82.0	2.14									
Uniontown	90	42	68.0	5.73			Parker	94	43	71.2	3.76		Corsicana	102	61	84.8	2.91									
Warren	92	40	70.8	3.57			Plankinton	106	48	73.8	2.20		Cuero	99	69	84.4	1.24									
Wellsboro	92	54	75.4	2.94			Redfield	105	40	73.6	1.81		Dallas	104	61	81.5	2.31									
West Chester	96	54	75.4	4.27			Rochford	92	38	62.3	3.14		Danevang	103	69	84.4	1.74									
West Newton	92	41	70.7	3.87			Rosebud	108	40	76.1	1.45		Desdemona	110 ^e	66	86.4 ^e	0.28									
Wilkesbarre	94	46	73.8	3.91			St. Lawrence	105	40	73.7	1.82		Dublin	100	60	80.1	2.60									
Williamsport	91	57	75.0	2.00			Shiloh	107	43	72.0	2.18		Duval	96	67	81.8	6.40									
York	95	49	74.8	5.32			Silver City	92	38	68.8	2.87		Emory	102	59	82.5	0.86									
<i>Rhode Island.</i>							Sioux Falls	98	40	68.0	2.08		Estelle	101	69	81.9	3.72									
Bristol	84	53	70.9	8.21			Spearfish	98	47	72.3	4.81		Fort Brown	100	71	82.0	0.20									
Kingston	89	49	69.5	2.71			Tyndall	98	41	71.2	0.98		Fort Clark	99	69	82.6	3.31									
Londale							Waukay	100	41	71.2			Fort McIntosh	107	71	87.8	0.61									
Pawtucket	89	60	73.8	4.80			Wentworth	94	44	70.8	1.88		Fort Ringgold	106	67	86.5	2.74									
Providence a	94	54	74.8	4.69			Wessington Springs	100	52	72.6	0.46		Fredericksburg ⁺	98	61	80.6 ⁺	1.85									
Providence c	90	54	72.0	4.97			Whiteswan	101	48	75.0	2.40		Fruitland	101	62	80.4	3.51									
<i>South Carolina.</i>							Wolsey						Gainesville	98 ^g	62	80.4 ^g	4.65									
Allendale	98	55	80.6	3.12			<i>Tennessee.</i>						Georgetown ⁺	100	67	88.5	3.02									
Anderson							Andersonville	97	54	75.5	6.18		Grapevine	107 ^c	68	88.4 ^c	4.30									
Batesburg	108	58	81.0	2.60			Arlington	97	51	78.8	8.57		Hale Center	94	63	78.6	6.43									
Beaufort	98	66	81.8	2.12			Ashwood	100	58	79.8	3.18		Hallettsville	99	68	88.4	2.02									
Blackville	100	57	81.0	3.41			Bluff City						Hearne	99	69	88.9	0.95									
Calhoun Falls							Bolivar	98	54	78.4	8.56		Henrietta	100	62	81.7	6.67									
Camden							Bristol	94	50	73.3	5.07		Hewitt													
Central	98	56	78.8	4.22			Brownsville	99	61	78.6	2.61		Hondo													
Cheraw a	103	57	81.8	3.05			Byrdstown	98	52	76.1	6.31		Honeygrove													
Cheraw b							Carthage	100	55	79.1	4.69		Houston	94	70	81.9	2.47									
Clemson College	98	54	78.4	4.00			Clinton						Hulen													
Conway							Covington	99	58	81.0	1.61		Huntsville	96	63	82.4	4.05									
Darlington							Decatur	98	56	77.0	4.49		Jacksonville	98	59	82.0	3.09									
Edisto							Dover	94					Jasper	100	64	82.8	0.74									
Ephingham							Dyersburg	97	57	79.7	3.58		Kent													
Florence	100	60	81.4	8.31			Elizabethton	94	52	76.4	3.58		Kerrville	99	56	79.6	1.59									
Gaffney							Elk Valley	94	54	79.1	8.00		Lampasas	101	58	81.8	1.16									
Georgetown	95	63	79.1	4.50			Erasmus	94	44	71.5	6.94		Langtry													
Greenville	97	58	76.9	1.64			Florence	97	63	79.0	5.53		Laureles Ranch													
Greenwood	105	57	82.8	2.17			Franklin	98	55	78.4	6.38		Llano ⁵	106	70	85.5	2.10									
Holland	99	47	77.8	4.01			Grace ⁺	100	63	76.1	8.80		Longview	104	60	84.2	1.81									
Kingstree a	98	58	80.2	3.79			Greeneville	96	52	74.4	3.17		Luling	100	67	88.0	2.85									
Kingstree b							Harrison	98	54	76.1	6.54		Mann	100	68	81.2	2.36									
Little Mountain	105	60	82.0	3.61			Hohenwald	98	51	77.0	3.81		Marathon	98	44	73.8	0.96									
Longshore	103	56	80.2	3.22			Jackson	98	53	78.8	2.60		Monahans													
Pinopolis ⁺	94	62	78.5	3.99			Jonesboro ¹	100	48	78.0	5.70		Mount Blanco	96	61	76.3	5.12									
St. Georges	100	57	80.4	2.66			Kingston	89	61	74.1	1.99		New Braunfels	102	64	82.7	5.94									
St. Matthews	101	60	80.4	3.30			Lafayette ⁺	100	52	77.3	7.58		Panter													
St. Stephens							Savannah	100	55	80.1	4.49		Paris a	102	63	82.2	1.46									
Santuck	104	52	81.8	6.30			Sewanee	95	58	75.4	5.91		Point Isabel ⁺	98	80	85.2	0.00									
Shaws Fork	101	53	78.6	2.46			Silverlake	98	44	68.4	5.56		Rhineland	109	63	82.0	6.05									
Smiths Mills							Springdale	99	51	76.8	3.24		Roby	104	58	79.9	1.93									
Society Hill	99	61	80.8	4.74			Springfield	100	55	80.0	6.52		Rock Island	95	62	81.6	1.45									
Spartanburg	101	55	79.4	3.09			Springfield	100	53	76.8	2.94		Rockport ⁺													

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Utah—Cont'd.</i>						<i>Washington—Cont'd.</i>						<i>Wisconsin—Cont'd.</i>					
Fort Duchesne	97	34	71.0	Ins.	Ins.	Centererville	103	34	67.6	Ins.	Butternut	97	35	68.2	1.94		
Frisco	100	55	75.8	0.81		Chehalis	97	40	64.2	T.	Chilton	92	50	70.8	2.64		
Giles	105	52	81.0	0.98		Cheney					Citypoint	92	49	71.2	4.16		
Grover	94	42	66.4	3.07		Clearwater	86	40	60.6	0.40	Delavan	96	50	73.2	2.98		
Heber	94	38	67.8	1.61		Cle Elum	96	33	63.5	T.	Dodgeville	91	41	72.5	2.81		
Huntsville				0.17		Colfax	93	33	64.1	0.08	Easton	92	39	70.8	3.58		
Keilton ^a	100	60	75.7	0.90		Council					Eau Claire	92	46	71.6	1.62		
Levan	94	45	72.0	0.25		Coupeville	94	40	61.5	1.59	Florence	90	44	65.3	2.41		
Loa	98	38	67.9	2.20		Crescent	100				Grand River Locks				2.88		
Logan	93	48	72.4	0.60		Dayton	97	41	69.7	0.01	Grantsburg	95	42	70.5	2.08		
Manti	98	46	73.2	1.02		Ellensburg	93	42	67.7	0.05	Gratiot	93	45	74.4	7.60		
Marysville ^b			60.0	1.14		Ellensburg (near)	103	44	70.9	0.01	Hartford	95	45	71.0	3.65		
Millville				0.26		Fort Simcoe	101	45	72.6	0.00	Hartland	92	49	70.0	2.34		
Minersville	99	50	75.6	1.20		Grandmound	93	41	64.4	0.08	Harvey	93	49	71.0	4.27		
Moab	104	58	80.2	0.55		Hooper	104	42	73.4	T.	Hayward	93	40	68.4	1.78		
Mount Pleasant	104	47	74.6	0.76		Kennicott	106	47	77.8	0.05	Heafford Junction	90	48	68.4	2.35		
Ogden ^a *	101	59	76.9	T.		Lacenter	98	37	65.8	0.38	Hillsboro	93	40	70.5	1.50		
Pahreah	103	50	78.1	0.60		Lakeside	99	46	73.1	0.15	Koepnick ^b	92	58	69.1	2.40		
Parowan	97	45	72.8	0.73		Lind	112	36	75.6	0.08	Lancaster	91	46	71.3	4.94		
Pinto	94	40	69.4	0.05		Mayfield	96	36	64.8	0.13	Lincoln	87	50	68.6	6.14		
Promontory ^a	103	58	74.6	0.28		Moree Valley	102	40	72.0	0.12	Madison	91	53	71.8	3.29		
Ridgfield	94	59	75.3	0.16		New Whatcom	96	48	60.8	0.90	Manitowoc	90	48	66.5	3.40		
St. George	107	51	82.2	0.05		Northbend	90	39	63.5	0.90	Meadow Valley	92	48	70.0	2.46		
Scipio	97	42	73.6	0.68		Northport	98	37	65.8	0.87	Medford	34			0.76		
Snowville	95	41	70.4	0.17		Olga	87	42	59.2	0.60	Menasha				3.52		
Soldier Summit	100			0.55		Olympia	95	42	64.2	0.08	Neillsville	90	42	69.0	2.61		
Terrace ^a	96	50	72.0	T.		Orcas Island	90	41	62.8	0.55	New Holstein				8.55		
Tooele	98	53	75.6	0.63		Pinehill	99	43	69.7	0.00	New London	90	45	60.3	6.50		
Tropic	97	38	66.6	1.50		Pomeroy	98	54	80.6	0.01	Oconto	90	46	68.4	5.70		
Vernal	94	50	73.0	0.64		Port Townsend	87	46	61.1	1.18	Osceola	94	36	68.7	1.86		
Woodruff	98	30	62.5	0.98		Pullman	96	38	67.0	0.12	Oshkosh	87			2.15		
<i>Vermont.</i>						Ritzville					Pepin	93	41	72.2	1.53		
Bennington	92	44	70.2	6.48		Rosalia	95	37	66.1	0.38	Portage	92	49	73.5	2.57		
Burlington	89	54	71.0	5.37		Silvana	88	41	61.0	1.11	Port Washington	93	48	67.8	3.82		
Chester	90	38	65.5	2.38		Shonomish	88	42	63.0	1.19	Prairie du Chien	96	46	74.4	1.41		
Cornwall	93	43	70.2	4.28		Snoqualmie	98	45	66.2	0.78	Prentice ^a	92	48	65.6	3.07		
Derby	88	40	66.2	6.23		Southbend	91	41	61.4	0.50	Racine	92	50	70.3	4.26		
Hartland	91	36	66.2	5.42		Sprague					Sharon ^b	94	50	72.6	2.99		
Jacksonville	88	40	67.1	6.12		Sunnyside	101	45	73.7	0.00	Shawano	91	46	68.1	5.15		
Norwich	93	28	66.8	4.43		Tunnel					Spooner	95	41	70.8	2.78		
St. Johnsbury	20	38	67.0	4.36		Union City	90	42	63.7	T.	Stevens Point	85	45	65.4	3.28		
Vernon ^a	93	56	72.8	5.77		Usk	96	43	67.5	1.12	Sturgeon Bay Canal ^a	85	48	65.4			
Wells	93	41	69.9	3.99		Vancouver	93	44	65.3	0.10	Two Rivers ^a	88	58	68.4			
Woodstock	93	37	67.0	4.71		Vashon	89	45	63.0	0.71	Valley Junction	92	40	68.5	2.19		
<i>Virginia.</i>						Waterville	103	37	69.0	0.18	Viroqua	89	50	70.8	3.14		
Alexandria	98	55	78.5	4.84		Wenatchee (near)	99	43	70.3	0.12	Watertown	91	49	70.8	3.72		
Ashland	99	52	78.0	6.76		<i>West Virginia.</i>					Waupaca	92	52	68.3	2.14		
Barbourville	96	53	77.0	5.46		Glenville					Waupau	91	49	70.3	5.18		
Bigstone Gap	96	48	78.8	6.12		Grafton	92	45	72.8	4.68	West Bend	95	50	72.1 ^c	2.80		
Birdsnest ^a	91	63	77.4	4.00		Green Sulphur	91	47	73.0	0.94	Westfield	92	47	71.8	1.86		
Blacksburg	89	45	70.2	3.38		Hamlin	93	50	75.5	2.94	Whitehall	90	46	69.4	1.60		
Buckingham	94	50	74.6	2.97		Harper's Ferry					<i>Wyoming.</i>						
Burkes Garden	85	41	65.2	4.64		Hinton ^a	96	50	75.5	1.23	Alcova	101	82	65.1	0.60		
Calaville	94	46	75.8	5.53		Hinton ^b	96	50	75.5	1.23	Basin	107	41	74.1	0.22		
Christiansburg				2.64		Huntington	97	52	74.9	4.34	Bedford ^b	88	39	61.4			
Cliftown Forge	95	48	75.0	1.42		Kingwood	92	45	72.8	4.68	Big Piney	85	38	59.4	0.50		
Columbia				1.55		Madison	90				Bitter Creek	108	32	68.8	0.80		
Dale Enterprise	99	45	74.1	3.15		Marlington	89	45	70.2	2.95	Buffalo	96	43	67.4	0.76		
Danville				3.15		Martinsburg	97	52	74.9	1.15	Burns	90	28	58.8	1.01		
Dowell	101	50	80.6	2.45		Morganatown	96	50	74.3	3.38	Carbon	104	40	68.4	1.11		
Farmville	98	51	78.4	2.50		New Cumberland	98	49	75.0	5.91	Centennial	79	34	57.8	1.58		
Fountain	99	53	77.7	3.31		New Martinsville	95	51	75.3	4.29	Douglas	100	40	68.6	2.15		
Fredericksburg	95	54	77.4	3.39		Nuttallburg	90	48	72.2	3.89	Embar	98	43	69.2	0.51		
Grahams Forge ^a	89	45	63.9	1.45		Oceans	91	51	73.4	4.09	Evanson	89	35	62.9	0.51		
Hampton	92	62	79.0	6.72		Oldfields	98	45	73.4	2.95	Fort Laramie	103	46	71.7	1.84		
Hot Springs	89	35	66.8	2.76		Parsons	98	49	71.6	4.63	Fort Washakie	93	42	66.4	0.75		
Lexington	98	50	74.8	3.18		Philippi ^a	94	48	73.2	7.92	Fort Yellowstone	88	34	61.4	1.43		
Manassas	97	51	78.1	1.57		Point Pleasant	96	51	77.2	4.15	Four Bear	85	32	59.6	1.56		
Marion	93	45	72.6	5.12		Powellton	91	50	72.2	1.93	Hecla	92	43	65.6	1.89		
Miller School	91	49	72.8	5.84		Romney	92	51	74.8	2.59	Hyattville	101	39	69.7	0.01		
Petersburg	96	58	78.7	6.13		Row											

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Porto Rico—Cont'd.</i>											
Corozal.....	90	61	78.3	18.69							
Fajardo.....	89	69	81.6	5.58							
Guayama.....	92	60	80.3	6.40							
Humacao.....	92	66	80.8	7.35							
Isabela.....	91	68	81.8	2.98							
Lajas.....	95	67	80.1	6.78							
Loiza.....	84	71	77.4	5.88							
Los Banos.....				4.11							
Luquillo.....	95	72	80.1	10.60							
Manati.....	92	68	80.0	9.70							
Mayaguez.....	92	68	78.7	14.41							
Morovis.....	88	67	77.9	3.98							
Puerto de Tierra.....	90	72	81.1	8.14							
San Lorenzo.....	91	68	80.2								
Vieques.....	90	69	78.6	6.45							
Yanco.....	93	82	78.3	8.81							
<i>Late reports for June, 1899.</i>											
<i>Alaska.</i>											
Juneau.....	68	40	51.2	5.63							
Kensai.....	68	31	48.0	0.68							
Tyconock.....	68	37	53.2	1.20							
<i>Arkansas.</i>											
Conway.....	108		80.6								
<i>California.</i>											
Drytown.....	106	46	78.6	0.09							
Glendora.....				0.00							
Jolon.....				T.							
Kernville.....				0.18							
Los Alamos.....				0.61							
Mount Frazier.....				0.60							
Mountain View.....				0.00							
Placerville.....	101	42	69.0	0.88							
San Miguel Island.....				2.00							
West Palmdale.....				0.00							
<i>Connecticut.</i>											
Winsted* ¹	88	49	66.8								
<i>Florida.</i>											
Earnestville.....	101	63	82.8	9.88							
<i>Kansas.</i>											
Delphos.....	96	52	74.3	10.87							
Osborne.....				3.92							

EXPLANATION OF SIGNS.

* Extremes of temperature from observed readings of dry thermometer.

A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:

¹ Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4.

² Mean of 8 a. m. + 8 p. m. + 2.

³ Mean of 7 a. m. + 7 p. m. + 2.

⁴ Mean of 6 a. m. + 6 p. m. + 2.

⁵ Mean of 7 a. m. + 2 p. m. + 2.

⁶ Mean of readings at various hours reduced to true daily mean by special tables.

⁷ Mean from hourly readings of thermograph.

⁸ Mean of sunrise and noon.

⁹ Mean of sunrise, noon, sunset, and midnight.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

An italic letter following the name of a station, as "Livingston *a*," "Livingston *b*," indicates that two or more observers, as the case may be, are reporting from the same station. A small roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance, "—" denotes 14 days missing.

No note is made of breaks in the continuity of temperature records when the same do not exceed two days. All known breaks, of whatever duration, in the precipitation record receive appropriate notice.

CORRECTIONS.

Minnesota, Detroit City, June, 1899, make total precipitation 8.06, instead of 8.00.

Missouri, Gorin, May, 1899, make total precipitation 9.24, instead of 7.84.

December, 1898, Review, page 563, column 2, line 20 from the top, read Dakota Republican, instead of Hutchinson County Herald. Page 567, column 1, lines 4-8, for H. W. Richardson read Norman B. Conger. See February, 1899, Review, page 60.

TABLE III.—*Mean temperature for each hour of seventy-fifth meridian time, July, 1899.*

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	Midn't.	Mean.		
Bismarck, N. Dak....	64.2	62.5	61.0	60.4	59.1	57.7	57.9	61.0	64.5	68.8	71.7	74.2	76.4	77.8	78.9	80.4	80.1	79.3	77.9	75.1	73.8	71.1	68.3	65.9	69.7	
Boston, Mass.....	67.0	68.4	65.9	65.4	65.2	66.0	69.2	71.2	73.8	75.8	76.6	77.6	78.5	78.5	78.2	78.8	77.8	76.7	75.1	72.8	71.1	70.3	69.3	68.0	72.3	
Buffalo, N. Y.....	67.3	66.6	68.3	65.9	65.6	66.0	67.8	69.2	70.3	71.3	72.5	73.1	74.2	74.9	75.1	74.5	74.8	73.3	72.7	72.3	71.0	70.3	69.2	67.9	70.5	70.5
Cedar City, Utah....	71.2	70.2	68.1	68.5	67.2	66.5	65.3	65.6	66.4	70.0	74.8	77.4	79.6	81.8	84.4	88.4	91.5	80.5	79.3	76.8	74.0	72.7	74.4	71.0	69.7	74.4
Chicago, Ill.....	69.7	69.2	68.1	68.0	67.7	67.2	68.9	69.4	70.6	72.3	73.8	74.1	74.9	75.2	75.0	74.4	74.1	73.5	73.2	72.4	71.5	70.8	70.6	71.6	71.6	71.6
Cincinnati, Ohio....	72.5	71.2	70.1	69.5	68.8	67.5	67.9	71.3	73.8	76.7	79.0	80.9	82.6	83.7	84.7	85.3	85.6	85.1	88.7	80.8	79.3	73.7	75.4	73.9	76.9	76.9
Cleveland, Ohio....	69.4	68.7	67.7	67.0	66.6	66.4	69.0	69.4	72.4	73.9	74.7	74.5	74.4	75.0	74.5	74.3	75.0	75.6	75.0	73.6	72.7	71.4	70.3	71.9	71.9	71.9
Detroit, Mich.....	68.4	67.7	66.8	68.0	65.0	64.8	65.3	67.8	70.0	71.7	72.9	74.4	75.6	76.7	77.3	77.7	78.1	78.1	77.1	75.1	73.2	71.5	70.4	69.2	71.7	71.7
Dodge, Kans.....	69.5	68.5	67.9	67.3	66.8	66.3	66.0	67.4	70.0	72.9	75.9	78.1	80.2	81.4	82.7	88.1	82.4	81.3	80.2	76.9	72.2	72.5	71.4	74.4	74.4	74.4
Eastport, Me.....	54.9	54.7	54.1	53.9	54.1	54.7	56.3	55.3	60.2	61.1	61.5	62.1	62.7	63.2	62.7	61.6	59.4	58.5	57.5	55.4	56.0	55.5	58.5	58.5	58.5	58.5
Galveston, Tex.....	81.6	81.8	80.0	80.6	80.5	80.3	80.5	81.6	82.9	84.1	85.2	86.1	87.1	85.9	85.4	85.0	84.5	83.0	81.9	79.4	78.1	74.0	69.9	83.0	83.0	83.0
Havre, Mont.....	64.8	62.8	60.7	59.3	57.9	56.8	55.2	56.5	59.8	68.0	70.3	73.8	77.7	79.2	78.6	79.6	79.6	80.1	80.1	79.4	74.4	71.1	69.9	68.6	68.6	68.6
Independence, Cal....	81.4	78.8	77.5	75.5	74.1	72.6	71.1	69.8	69.9	72.3	76.9	81.0	85.0	87.9	90.3	91.6	92.2	92.5	92.4	92.6	90.9	87.7	85.5	83.6	82.2	82.2
Kalispell, Mont....	59.7	57.8	56.1	54.1	53.0	51.5	50.3	50.5	53.3	58.3	62.7	66.2	68.9	71.4	73.4	75.1	75.5	75.3	76.2	75.7	74.8	71.8	67.6	61.6	64.1	64.1
Kansas City, Mo....	72.8	72.1	70.8	70.4	69.8	69.3	69.1	70.9	73.4	75.3	77.0	78.9	80.2	81.3	82.5	82.2	81.8	81.8	78.8	76.9	75.8	74.2	76.3	76.3	76.3	76.3
Key West, Fla.....	81.0	80.9	80.7	80.7	80.4	80.0	80.7	82.1	83.4	84.4	85.2	85.6	85.5	85.7	85.8	85.4	85.0	84.4	83.6	83.2	81.6	81.3	81.1	82.9	82.9	82.9
Marquette, Mich....	80.6	80.3	58.7	59.3	58.7	58.7	59.8	62.3	64.2	65.8	67.6	67.7	67.5	67.4	67.2	67.2	67.1	66.8	65.4	64.9	63.3	61.9	61.2	63.6	63.6	63.6
Memphis, Tenn.....	76.0	75.3	74.7	74.1	73.8	73.5	73.0	73.1	74.6	77.0	78.9	81.3	83.1	84.3	85.4	85.9	85.6	84.7	83.3	82.3	80.3	79.5	78.0	77.0	79.4	79.4
Mt. Tamalpais, Cal....	70.4	70.1	69.5	68.6	68.4	68.4	67.9	67.6	66.9	67.4	68.6	70.3	70.7	71.5	72.0	73.6	74.0	75.3	75.4	75.3	73.3	72.1	71.3	70.9	70.8	70.8
New Orleans, La....	78.5	78.4	78.0	77.7	77.8	77.3	77.9	79.0	81.2	82.5	83.8	84.9	86.1	86.7	86.9	85.2	85.6	85.5	88.7	83.2	81.6	79.5	79.1	81.7	81.7	81.7
New York, N. Y....	69.8	68.7	68.1	67.5	67.0	67.8	69.0	70.8	72.2	74.8	76.4	77.9	78.8	79.5	79.7	79.4	78.7	77.3	75.4	73.9	72.7	71.1	70.7	73.3	73.3	73.3
Philadelphia, Pa....	70.8	70.1	69.5	69.1	68.7	68.4	71.1	72.9	75.8	77.5	79.5	81.5	82.9	83.5	84.2	84.0	83.7	81.8	79.2	77.0	74.9	73.8	72.8	71.8	70.6	70.6
Pittsburg, Pa.....	69.5	68.7	69.0	67.1	66.7	67.1	68.4	69.1	72.8	74.3	77.1	79.4	80.9	82.2	83.0	82.8	81.8	79.3	77.9	74.5	73.4	71.9	70.6	75.1	75.1	75.1
Portland, Oreg....	67.2	66.5	68.9	68.2	65.5	65.9	59.3	58.2	57.2	57.1	58.7	60.6	62.3	64.5	66.5	68.7	70.8	72.7	74.5	75.8	75.4	74.3	72.0	69.8	66.4	66.4
St. Louis, Mo....	75.6	74.9	74.0	73.2	72.5	71.8	72.0	73.6	75.4	77.1	78.0	80.2	81.4	82.6	83.3	84.6	84.9	85.2	84.9	85.5	82.1	80.6	79.3	77.9	76.7	78.7
St. Paul, Minn....	69.4	67.9	66.5	65.7	64.7	64.0	63.7	65.9	67.6	70.4	73.3	75.3	77.4	78.7	79.9	80.9	81.0	81.3	81.2	79.2	77.8	75.3	73.0	71.4	73.0	73.0
Salt Lake City, Utah....	78.9	72.9	70.8	68.7	67.8	66.8	65.8	66.9	68.1	70.9	74.9	78.8	81.5	83.9	85.4	86.3	86.8	86.5	85.5	85.1	83.0	80.1	76.5	74.9	76.8	76.8
San Diego, Cal....	63.6	63.8	63.0	62.7	62.4	62.2	61.9	61.6	62.1	63.8	65.2	67.0	67.8	69.3	69.0	68.8	68.6	68.1	67.1	66.0	64.9	64.3	65.1	65.1	65.1	
San Francisco, Cal....	58.0	52.6	52.1	51.7	51.4	51.2	51.0	51.5	51.0	51.6	53.0	55.7	57.2	58.7	59.3	59.6	59.9	59.3	58.5	57.1	56.4	55.1	54.1	54.8	54.8	54.8
Santa Fe, N. Mex....	63.0	62.3	61.4	60.7	59.7	58.9	57.5	59.1	68.5	65.5	68.0	70.1	72.4	73.9	74.1	74.4	75.5	74.7	75.1	68.7	66.8	64.5	64.5	66.9	66.9	66.9
Savannah, Ga.....	75.9	75.3	75.1	74.9	74.4	74.3	75.4	77.8	81.5	84.1	86.5	87.8	87.2	86.7	86.1	85.0	83.4	82.2	80.8	79.5	78.5	74.8	77.1	76.6	80.2	80.2
Washington, D. C....	70.8	70.2	69.4	68.8	68.2	67.9	70.1	73.7	78.2	80.6	82.4	84.1	84.2	83.5	83.6	83.0	82.1	79.0	75.2	74.0	73.1	72.0	76.2	71.2	71.2	71.2
<i>West Indies.</i>																										
Basseterre, St. Ktts....	78.4	78.2	78.3	78.8	79.2	79.8	80.2	81.3	82.6	83.7	83.8	84.1	84.5	84.4	83.0	82.0	80.8	80.7	78.8	79.0	79.6	79.2	79.2	78.8	80.6	80.6
Bridgeport, Bar....	77.0	76.8	76.6	76.6	76.8	77.2	78.0	82.3	82.3	84.8	85.1	84.8	84.7	84.2	83.1	82.4	82.8	82.0	80.6	79.0	78.8	78.5	78.1	77.5	80.3	80.3
Cienfuegos, Cuba....	74.5	74.0	73.6	73.2	73.0	73.5	77.1	80.7	88.1	84.5	86.7	87.5	88.0	87.5	85.5	84.5	84.5	83.7	83.8	82.1	81.4	79.3	77.7	76.9	75.2	79.8
Havana, Cuba.....	76.9	76.5	76.1	75.6	75.2	75.0	75.5	79.5	79.5	82.7	85.0	86.1	85.6	85.0	84.7	83.8	82.1	81.5	80.9	80.1	79.3	78.3	75.5	78.0	80.6	80.6
Kingston, Jamaica....	73.8	73.8	73.5	72.7	72.2	72.4	74.9	80.3	83.5	85.8	87.3	87.6	88.6	86.3	85.5	84.5	83.3	82.3	80.2	79.1	77.4	76.1	73.2	74.7	79.5	79.5
Port of Spain, Trin....	74.9	74.2	73.8	73.7	73.4	74.5	77.1	80.2	81.6	83.9	84.4	85.0	84.9	84.5	83.4	82.4	81.8	81.0	78.8	78.2	77.3	76.7	76.7	75.9	74.4	74.4
P. Principe, Cuba....	73.7	73.2	72.6	72.4	72.1	73.1	75.0	78.2	81.1	84.0	86.0	88.5	89.5	87.5	85.0	83.6	81.6	80.1	78.8	78.2	77.3	76.7	76.7	75.9	74.4	74.4
San Juan, P. R....	76.8	76.4	76.5	76.4	76.8	76.3	76.9	75.0	80.7	81.4	82.3	82.8	83.6	83.5	83.8	83.6	82.0	81.7	81.0	79.9	79.2	79.4	78.8	77.7	77.7	79.7
Santiago de Cuba....	76.8	75.8	75.4	75.1	74.6	74.9	78.1	80.7	81.4	82.3	82.8	83.6	83.6	83.8	83.6	83.0	82.5	82.9	82.7	81.3	80.5	79.6	78.7	77.9	76.9	81.2
Santo Domingo, S. D....	78.1	72.7	72.5	72.8	72.0	72.4	75.0	78.7	81.1	88.3	84.7	85.0	84.2	82.5	82.0	81.2	79.7	78.1	76.7	75.6	74.8	74.2	73.7	73.3	77.4	77.4
Willemstad, Curaçao	79.1	78.8	78.6	78.5	78.4	78.0	80.8	81.1	82.7	88.6	84.3	84.7	85.0	85.0	84.8	83.9	82.5	81.5	80.7	79.3	76.6	75.5	74.5	74.5	74.5	74.5

TABLE IV.—*Mean pressure for each hour of serenty-fifth meridian time, July, 1899.*

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midn't.	Mean.
Bismarck, N. Dak...	.28-.225	.229	.293	.235	.235	.240	.247	.251	.263	.252	.248	.245	.237	.237	.216	.196	.187	.183	.180	.188	.197	.207	.215	.225	
Boston, Mass....	.20-.815	.810	.808	.811	.816	.826	.828	.829	.824	.823	.818	.810	.804	.798	.791	.784	.788	.787	.793	.802	.813	.816	.814	.809	
Buffalo, N. Y....	.29-.139	.137	.140	.147	.154	.154	.159	.165	.164	.163	.159	.155	.144	.135	.127	.128	.115	.116	.117	.119	.128	.132	.136	.138	
Cedar City, Utah...	.24-.824	.823	.824	.828	.820	.835	.841	.850	.857	.845	.845	.845	.841	.835	.839	.839	.817	.802	.803	.807	.822	.825	.827	.832	
Chicago, Ill....	.29-.119	.116	.116	.117	.125	.128	.136	.148	.145	.146	.146	.140	.135	.127	.118	.110	.102	.098	.090	.090	.097	.106	.108	.109	
Cincinnati, Ohio...	.29-.848	.841	.848	.841	.846	.857	.864	.869	.872	.870	.868	.860	.854	.856	.856	.839	.809	.805	.803	.810	.815	.827	.837	.838	
Cleveland, Ohio...	.29-.169	.165	.165	.171	.177	.186	.189	.198	.198	.195	.198	.191	.182	.174	.166	.160	.158	.150	.149	.150	.158	.160	.161	.172	
Detroit, Mich....	.29-.195	.193	.191	.193	.197	.204	.210	.217	.222	.220	.218	.212	.204	.193	.183	.176	.168	.163	.165	.168	.178	.185	.187	.188	
Dodge, Kans....	.27-.498	.486	.494	.494	.491	.498	.498	.441	.446	.450	.448	.446	.438	.425	.418	.401	.397	.379	.374	.381	.389	.400	.414	.422	
Eastport, Me....	.29-.839	.835	.833	.838	.841	.847	.851	.855	.851	.851	.845	.841	.835	.830	.829	.828	.822	.821	.826	.834	.836	.838	.835	.837	
Galveston, Tex....	.29-.917	.913	.908	.907	.911	.916	.920	.925	.919	.919	.915	.911	.906	.905	.904	.904	.907	.897	.887	.888	.889	.894	.904	.918	
Havre, Mont....	.27-.365	.365	.364	.366	.374	.374	.381	.388	.388	.386	.386	.401	.401	.394	.394	.388	.380	.358	.348	.335	.323	.321	.327	.334	
Independence, Cal...	.25-.915	.925	.931	.925	.925	.940	.942	.954	.965	.973	.978	.990	.979	.976	.966	.952	.935	.920	.902	.888	.874	.865	.868	.883	
Kalispell, Mont....	.26-.931	.937	.941	.948	.955	.959	.968	.976	.965	.969	.967	.960	.971	.959	.946	.936	.928	.909	.897	.889	.888	.891	.905	.916	
Kansas City, Mo....	.29-.001	.999	.997	.998	.996	.000	.007	.013	.022	.029	.027	.029	.016	.008	.997	.985	.975	.965	.957	.962	.965	.965	.974	.982	
Key West, Fla....	.20-.003	.995	.990	.998	.991	.997	.011	.017	.027	.030	.030	.025	.015	.008	.995	.985	.979	.977	.980	.989	.001	.007	.011	.010	
Marquette, Mich....	.29-.161	.159	.160	.160	.162	.165	.168	.167	.169	.163	.155	.154	.152	.150	.148	.147	.144	.148	.144	.144	.151	.161	.159	.156	
Memphis, Tenn....	.29-.570	.567	.564	.565	.569	.560	.583	.592	.569	.561	.514	.612	.602	.589	.576	.561	.546	.538	.539	.544	.553	.564	.569	.575	
Mt. Tamalpais, Cal...	.24-.507	.505	.501	.498	.498	.498	.498	.493	.493	.502	.512	.525	.532	.540	.546	.549	.546	.539	.538	.539	.541	.549	.547	.513	
New Orleans, La....	.29-.940	.938	.931	.934	.939	.947	.960	.970	.978	.978	.977	.973	.968	.948	.935	.924	.913	.907	.906	.912	.920	.931	.940	.942	
New York, N. Y....	.29-.642	.638	.636	.636	.648	.650	.655	.660	.660	.659	.654	.647	.639	.631	.620	.611	.607	.610	.618	.623	.635	.638	.640	.637	
Philadelphia, Pa....	.29-.882	.858	.856	.856	.861	.869	.877	.883	.884	.882	.875	.867	.855	.845	.838	.830	.828	.826	.828	.838	.845	.857	.859	.856	
Pittsburgh, Pa....	.29-.110	.107	.105	.106	.109	.117	.123	.123	.123	.120	.116	.109	.099	.098	.092	.077	.075	.076	.085	.092	.104	.109	.108		
Portland, Oreg....	.29-.860	.868	.878	.882	.888	.891	.893	.896	.904	.909	.910	.907	.902	.895	.885	.872	.868	.846	.884	.828	.817	.817	.825	.841	
St. Louis, Mo....	.29-.380	.378	.378	.378	.381	.393	.403	.408	.416	.418	.414	.410	.406	.390	.380	.386	.381	.343	.358	.365	.369	.373	.376	.383	
St. Paul, Minn....	.29-.072	.071	.069	.069	.071	.078	.084	.091	.094	.098	.093	.088	.080	.076	.068	.059	.062	.045	.040	.036	.036	.047	.056	.068	
Salt Lake City, Utah...	.25-.604	.607	.607	.611	.614	.617	.629	.640	.651	.657	.662	.659	.655	.645	.638	.619	.602	.588	.575	.569	.568	.560	.561	.516	
San Diego, Cal....	.29-.799	.799	.794	.798	.792	.778	.777	.779	.794	.802	.807	.809	.809	.807	.802	.796	.786	.779	.772	.766	.768	.774	.785	.790	
San Francisco, Cal...	.29-.793	.793	.790	.786	.781	.780	.781	.789	.797	.806	.816	.818	.821	.820	.815	.816	.795	.784	.772	.768	.765	.770	.776	.793	
Santa Fe, N. Mex....	.29-.393	.398	.392	.398	.398	.389	.389	.395	.402	.408	.414	.414	.412	.404	.398	.391	.371	.356	.349	.344	.343	.352	.365	.388	
Savannah, Ga....	.29-.965	.928	.927	.927	.936	.944	.951	.961	.964	.966	.959	.950	.948	.934	.911	.904	.899	.899	.905	.911	.925	.934	.938	.932	
Washington, D. C....	.29-.868	.865	.866	.867	.872	.883	.890	.897	.898	.897	.892	.885	.867	.856	.845	.838	.831	.834	.845	.854	.860	.863	.865	.865	
<i>West Indies</i>																									
Basseterre, St. Kitts...	.29-.046	.938	.935	.935	.948	.956	.965	.971	.977	.975	.969	.961	.947	.939	.931	.926	.931	.940	.956	.967	.977	.972	.958	.954	
Bridge town, Bar....	.29-.889	.885	.884	.887	.897	.905	.912	.918	.917	.907	.905	.895	.881	.871	.864	.862	.872	.885	.898	.914	.928	.932	.914	.901	
Cienfuegos, Cuba....	.29-.923	.910	.904	.907	.915	.924	.937	.942	.947	.945	.940	.938	.918	.905	.893	.888	.892	.903	.918	.930	.936	.943	.940	.938	
Havana, Cuba....	.29-.942	.930	.921	.923	.927	.934	.942	.955	.959	.961	.960	.955	.944	.935	.923	.919	.916	.917	.925	.932	.944	.954	.955	.950	
Kingston, Jamaica...	.29-.660	.648	.643	.641	.644	.655	.665	.666	.668	.663	.652	.638	.631	.605	.593	.589	.595	.600	.628	.647	.663	.670	.673	.641	
Port of Spain, Trin...	.29-.850	.844	.841	.842	.851	.864	.881	.885	.887	.890	.867	.852	.832	.817	.806	.816	.828	.845	.861	.873	.874	.863	.859	.852	
P. Princepe, Cuba...	.29-.620	.609	.602	.600	.604	.615	.624	.639	.631	.632	.627	.617	.605	.587	.574	.570	.572	.587	.600	.614	.624	.635	.638	.631	
San Juan, P. R....	.29-.904	.904	.893	.892	.904	.914	.923	.926	.931	.932	.927	.919	.907	.897	.887	.883	.897	.898	.909	.919	.930	.938	.942	.910	
Santiago de Cuba...	.29-.869	.860	.850	.851	.857	.867	.870	.877	.881	.881	.872	.862	.850	.847	.842	.834	.824	.825	.834	.845	.852	.867	.881	.860	
Santo Domingo, S. D.	.29-.934	.927	.923	.930	.941	.953	.960	.960	.955	.945	.932	.918	.909	.898	.893	.901	.909	.924	.940	.958	.962	.960	.947	.938	
Willemstad, Curaçao	.29-.817	.809	.803	.804	.809	.820	.833	.839	.844	.841	.831	.818	.794	.776	.744	.745	.756	.785	.808	.825	.838	.843	.835	.807	

TABLE V.—Average wind movement for each hour of seventy-fifth meridian time, July, 1899.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.									
Abilene, Tex.	6.1	6.6	6.9	6.8	7.2	6.5	5.2	5.4	7.6	9.4	9.7	9.5	9.9	10.4	11.0	11.4	11.1	10.2	9.9	9.8	7.7	6.4	5.9	5.9	7.8									
Albany, N. Y.	5.4	5.2	5.6	5.3	5.5	5.5	6.2	7.4	8.4	9.1	9.5	9.9	10.4	11.0	11.4	11.1	10.8	8.6	7.7	6.7	6.0	5.5	5.7	7.9	7.9									
Alpena, Mich.	4.9	4.9	4.8	5.2	5.1	5.6	5.8	6.1	6.6	7.3	7.8	7.5	8.2	8.6	8.5	8.1	7.8	6.1	5.5	4.9	4.8	4.9	4.7	6.3	6.3									
Amarillo, Tex.	6.7	7.0	6.6	6.7	6.8	6.0	6.0	5.9	8.5	9.0	9.4	9.4	9.4	9.8	9.2	8.8	9.0	9.1	9.5	8.7	7.7	8.3	8.1	8.0	7.9	7.9								
Atlanta, Ga.	7.5	7.5	7.7	8.0	7.8	7.3	7.1	6.9	7.1	7.4	7.5	7.9	8.5	8.7	8.8	8.6	8.7	8.4	8.1	7.7	7.0	7.8	7.7	7.7	7.8	7.8								
Atlantic City, N. J.	8.8	8.9	8.3	8.6	8.7	8.3	9.2	10.1	10.2	11.1	11.7	11.7	11.9	12.5	12.4	11.7	11.5	10.7	10.4	9.8	9.1	9.3	9.8	8.8	10.1	10.1								
Augusta, Ga.	8.6	8.6	8.6	8.1	8.0	8.0	8.8	4.5	5.5	6.3	6.6	6.7	7.0	7.8	8.0	7.5	7.5	7.2	5.9	5.2	4.1	4.1	3.5	5.3	5.3	7.8								
Baker City, Oreg.	3.8	2.9	3.4	4.8	5.8	6.7	7.5	8.0	8.2	8.7	8.2	2.9	3.6	4.6	5.2	6.5	6.7	7.8	8.1	7.9	7.5	6.8	5.2	4.5	5.7	5.7								
Baltimore, Md.	2.9	3.3	3.3	3.2	2.8	2.8	3.0	4.3	5.1	5.8	5.7	5.9	6.4	6.7	7.1	6.8	6.4	5.9	4.6	4.8	3.6	3.2	2.8	2.9	4.5	4.5								
Bismarck, N. Dak.	6.6	6.9	5.7	6.0	4.9	5.1	5.0	5.3	6.1	7.1	8.6	9.2	10.0	10.4	10.4	10.6	10.5	10.1	9.3	7.5	6.4	5.9	6.5	7.7	7.7	7.7								
Block Island, R. I.	12.5	12.9	12.1	11.8	12.2	12.8	18.0	18.9	14.1	14.0	14.7	15.5	15.5	16.2	16.5	17.1	16.5	15.5	14.3	13.9	14.1	14.4	18.4	13.1	14.2	14.2								
Boise, Idaho.	4.8	4.7	4.4	4.3	3.9	3.4	3.1	3.0	2.9	2.5	2.5	3.5	4.4	4.9	5.5	5.6	6.4	6.2	6.4	5.3	4.8	4.0	4.3	3.6	4.3	4.3	4.3							
Boston, Mass.	8.8	8.9	8.8	8.7	8.7	8.9	9.5	9.7	11.9	12.1	12.8	13.8	13.4	14.2	14.9	14.0	13.5	12.5	11.4	10.1	10.0	10.2	9.7	9.8	11.0	11.0								
Buffalo, N. Y.	10.2	10.3	10.5	10.6	10.8	9.5	8.8	9.4	9.8	11.6	12.7	12.5	14.4	14.8	14.3	13.6	13.3	13.0	11.4	10.6	10.7	10.8	11.5	11.5	11.5	11.5								
Cairo, Ill.	4.0	4.3	4.2	4.1	4.4	4.5	4.5	4.9	5.8	5.9	6.2	7.0	6.5	7.6	7.1	7.8	7.5	7.0	5.9	4.9	4.8	4.4	4.2	4.1	5.4	5.4								
Cape Henry, Va.	10.1	10.1	10.2	9.9	10.1	10.9	11.1	12.0	11.8	11.3	11.5	11.7	12.5	12.0	12.0	11.4	10.5	10.1	9.8	10.0	10.4	10.3	11.0	11.0	11.0	11.0								
Carson City, Nev.	5.4	4.8	5.1	4.1	3.8	3.2	3.5	3.8	2.8	2.3	2.4	3.0	4.2	4.2	4.6	4.8	4.2	4.5	4.2	3.8	3.2	2.7	2.5	3.6	3.6	3.6	3.6							
Cedar City, Utah.	6.9	7.3	7.3	7.3	7.1	7.5	8.0	7.7	7.0	5.0	5.9	5.5	5.2	5.9	6.6	7.5	8.1	8.9	8.8	7.7	6.6	5.9	4.8	5.9	6.7	6.7								
Charleston, S. C.	10.2	9.8	9.5	9.7	8.9	8.7	9.3	10.6	11.5	13.4	13.0	18.5	14.5	15.6	16.4	16.6	16.0	15.7	13.8	11.5	10.7	10.0	10.2	10.2	12.6	12.6								
Charlotte, N. C.	5.4	5.0	4.5	4.5	4.6	4.1	4.3	5.2	6.4	6.1	6.0	6.5	6.9	7.2	7.5	7.8	7.5	6.7	5.5	5.5	5.5	5.5	5.5	4.6	5.8	5.8								
Chattanooga, Tenn.	3.3	3.5	3.4	3.4	3.5	3.6	3.8	4.4	5.8	5.9	6.2	6.8	7.5	7.4	7.9	7.9	8.8	8.8	8.6	5.7	4.6	4.5	3.7	3.2	3.4	3.4	3.4							
Cheyenne, Wyo.	8.5	7.3	6.0	5.5	5.8	6.1	6.2	5.8	5.9	6.8	7.0	9.1	10.6	11.2	12.0	11.0	11.3	11.8	11.9	11.0	8.7	7.8	7.6	8.6	8.6	8.6	8.6							
Chicago, Ill.	10.4	10.9	11.3	11.5	11.8	11.5	10.5	11.6	11.8	12.5	13.1	13.9	14.7	15.3	14.4	14.5	14.5	14.0	13.2	12.0	11.8	11.2	11.2	10.8	12.8	12.8	12.8							
Cincinnati, Ohio.	3.1	3.1	3.5	3.4	3.1	3.0	3.6	4.1	5.7	7.0	8.4	8.6	8.5	10.2	9.6	9.6	9.6	8.5	8.5	7.5	4.7	4.2	3.6	3.5	6.0	6.0	6.0	6.0						
Cleveland, Ohio.	11.8	11.9	11.9	10.9	10.3	10.3	10.8	10.5	10.2	10.6	10.9	11.4	11.5	12.0	12.9	11.9	11.5	10.6	10.4	9.3	9.7	10.4	11.0	11.5	11.5	11.5	11.5							
Columbia, Mo.	4.4	4.0	4.1	4.8	4.4	5.0	4.7	4.7	5.2	5.5	6.2	6.4	6.6	6.6	7.4	7.1	6.3	6.0	5.2	4.3	4.3	4.6	4.1	5.2	5.2	5.2	5.2							
Columbus, Ohio.	4.3	3.7	3.8	3.5	3.2	3.3	3.9	4.9	5.4	6.3	7.5	7.8	8.3	8.5	9.3	9.6	9.5	9.7	7.5	5.9	5.5	5.1	4.5	6.0	6.0	6.0	6.0							
Concordia, Kans.	3.6	3.8	3.4	3.7	3.3	2.5	2.6	8.1	4.1	5.3	5.8	5.8	6.0	6.1	6.1	6.1	5.6	5.5	5.1	4.2	3.6	3.7	3.6	4.4	4.4	4.4	4.4							
Corpus Christi, Tex.	12.9	10.8	9.5	9.5	8.4	7.2	6.9	6.1	5.7	7.7	9.4	10.0	11.4	13.9	15.1	16.8	16.9	17.8	17.4	18.0	17.4	16.9	16.8	15.7	14.2	12.6	12.6							
Davenport, Iowa.	3.7	4.3	4.2	4.6	4.1	4.5	4.9	5.5	5.5	6.2	6.5	6.8	7.3	7.8	7.6	7.5	6.9	6.8	5.4	3.6	3.3	3.4	3.4	3.4	3.4	3.4	3.4							
Denver, Colo.	7.3	6.7	6.6	7.2	7.2	6.3	5.8	5.4	5.4	5.8	6.0	6.6	6.8	7.2	7.3	8.1	9.6	11.5	10.1	9.8	8.3	8.6	8.1	7.4	7.4	7.4	7.4							
Des Moines, Iowa.	3.9	4.0	3.5	3.3	3.1	3.1	3.1	3.9	5.8	6.0	6.9	7.5	7.5	7.6	7.6	7.8	7.8	7.2	6.2	4.7	4.1	4.2	3.9	5.5	5.5	5.5	5.5							
Detroit, Mich.	6.1	6.0	5.8	6.1	6.8	6.0	6.1	6.2	6.5	7.6	8.8	9.4	10.0	10.6	10.7	11.0	10.6	9.7	8.4	7.0	5.8	6.0	6.3	6.2	6.6	6.6	6.6							
Dodge, Kans.	7.1	6.2	6.0	6.1	6.0	6.4	5.9	6.5	8.0	9.6	9.9	10.3	10.5	11.0	11.2	11.1	10.9	11.0	12.0	10.6	8.0	7.8	7.3	7.4	8.6	8.6	8.6	8.6						
Dubuque, Iowa.	8.7	8.3	8.7	4.0	4.1	3.8	4.1	4.6	5.5	5.5	7.5	7.4	7.9	7.7	7.9	8.1	8.1	7.8	6.8	4.7	4.0	4.1	4.1	5.6	5.6	5.6	5.6							
Duluth, Minn.	9.1	8.9	9.2	8.5	9.2	8.4	8.0	7.9	7.6	8.0	9.1	9.5	10.5	10.2	9.8	10.1	10.0	9.8	8.1	8.4	8.3	8.8	8.1	8.3	8.9	8.9	8.9	8.9						
Eastport, Me.	6.5	6.5	5.6	6.0	5.7	6.6	6.6	8.0	8.8	9.8	10.6	10.7	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0							
Elkins, W. Va.	1.5	1.5	1.5	1.4	1.4	1.6	1.6	2.1	2.9	3.7	4.8	5.7	6.0	6.0	6.0	6.0	5.9	5.6	4.7	4.4	3.5	2.5	1.9	1.8	3.1	3.1	3.1	3.1						
El Paso, Tex.	10.9	10.3	9.7	10.1	10.3	9.9	8.9	8.5	9.4	10.0	10.4	10.9	10.7	11.1	10.7	11.1	10.5	9.6	9.7	9.8	9.9	9.4	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1				
Erie, Pa.	8.9	8.9	8.9	8.5	8.2	8.1	8.1	8.5	8.7	9.0	10.0	10.5	10.3	10.2	10.8	10.5	9.4	7.8	7.8	8.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4			
Escanaba, Mich.	6.4	6.0	6.0	6.2	6.3	5.7	6.4	6.5	7.0	8.5	9.4	10.3	10.3	10.5	11.3	10.6	11.2	10.8	9.1	8.0	7.1	6.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Eureka, Cal.	5.7	5.7	4.8	4.4	4.3	3.8	3.4	3.0	4.5	5.3	5.8	6.7	7.2	7.4	7.8	7.7	7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8		
Evansville, Ind.	3.6	3.5	3.6	3.8	4.0	4.0	4.5	4.5	5.3	5.7	6.7	6.7	6.7	7.3	7.8	8.1	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	
Fort Canby, Wash.	8.8	7.5	7.1	6.6	6.2	6.0	6.8	6.5	6.5	6.6	7.8	8.5	8.9	9.4	10.0	10.9	10.6	9.8	9.2	8.9	8.6	8.1	8.8	8.7	8.0	7.8	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
Fort Smith, Ark.	3.4	3.3	3.7	3.8	3.5</td																													

TABLE V.—Average wind moment, etc.—Continued.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
New Haven, Conn....	5.0	4.8	4.7	4.8	4.8	4.7	5.7	6.7	8.2	8.5	9.9	9.6	10.2	10.0	10.5	10.4	10.0	9.3	7.2	6.7	6.2	5.6	5.4	4.9	7.2
New Orleans, La....	4.6	4.4	4.4	3.8	4.0	4.0	4.1	4.8	6.6	7.7	7.8	8.2	8.8	8.3	7.8	8.0	8.3	7.6	7.3	6.0	5.3	5.6	5.2	4.9	6.1
New York, N. Y....	11.1	10.5	11.1	11.2	11.2	10.6	11.0	11.2	11.3	11.5	12.1	13.1	13.2	14.5	15.4	15.8	16.3	15.6	15.8	14.4	13.2	12.4	10.8	11.4	12.7
Norfolk, Va....	7.7	7.6	7.3	7.0	7.0	6.9	7.5	8.2	8.9	9.0	9.5	9.4	9.7	9.4	10.2	10.4	10.8	10.1	9.6	8.1	8.5	8.1	8.0	7.8	8.6
Northfield, Vt....	6.2	5.8	5.5	5.1	5.5	5.5	5.6	6.5	7.8	7.9	9.9	10.5	10.8	11.6	11.2	11.8	11.0	10.1	9.4	8.9	6.2	6.3	6.7	6.8	6.3
North Platte, Nebr....	8.0	6.8	7.0	6.1	5.7	5.2	5.2	5.8	7.1	8.9	8.8	8.9	9.3	9.8	9.6	9.5	9.8	9.6	10.5	9.6	8.6	8.2	8.6	8.3	8.1
Oklahoma, Okla....	5.8	6.2	6.0	6.0	5.5	5.7	4.6	5.4	6.8	7.9	8.8	9.0	9.5	9.2	9.1	9.3	9.3	9.0	8.5	8.5	6.9	6.2	6.4	6.5	7.8
Omaha, Nebr....	4.2	4.5	4.7	4.7	4.5	4.2	4.3	5.1	5.8	6.2	7.2	8.0	8.4	8.7	9.2	8.9	8.9	8.6	7.7	7.8	6.7	5.5	5.0	4.5	6.4
Oswego, N. Y....	8.5	7.9	8.1	7.8	7.6	7.5	7.9	8.2	9.0	9.5	10.1	9.7	9.9	10.2	9.6	9.2	9.5	8.2	7.9	7.2	8.2	8.8	8.5	8.5	
Palestine, Tex....	4.3	4.3	4.5	4.6	4.0	3.9	3.7	4.1	5.5	6.4	6.8	6.6	6.5	6.6	6.9	7.8	6.9	6.9	6.0	4.8	3.5	3.4	3.9	4.2	5.2
Parkersburg, W. Va....	8.0	8.0	2.9	3.2	3.8	2.9	2.9	3.5	4.1	4.7	5.5	5.5	6.6	6.6	6.7	7.7	6.2	6.2	4.8	4.2	3.8	3.4	3.5	4.5	4.5
Pensacola, Fla....	6.2	6.0	6.5	6.6	6.1	6.1	6.2	6.2	6.8	7.0	7.7	7.9	8.3	9.9	10.6	11.7	11.4	10.4	9.4	8.6	8.9	5.8	5.8	7.6	
Phoenix, Ariz....	5.8	4.7	4.4	4.2	3.7	3.6	3.5	3.5	3.8	3.6	4.7	4.8	3.9	4.4	4.6	4.9	5.5	5.3	6.1	6.7	5.6	5.3	5.5	4.7	
Philadelphia, Pa....	8.5	8.0	8.1	7.3	7.5	7.7	9.1	10.3	9.6	10.5	10.9	11.4	11.5	12.1	12.0	12.1	12.4	10.8	9.7	8.9	8.3	8.3	8.5	9.6	
Pierre, S. Dak....	10.2	9.8	9.0	6.8	5.9	6.0	6.7	6.6	8.3	8.4	9.2	9.4	9.5	9.8	11.1	11.5	12.9	12.7	13.4	13.2	11.7	12.3	11.6	9.9	
Pittsburg, Pa....	3.2	2.9	2.9	3.0	3.0	3.2	3.4	4.2	4.5	5.0	5.8	5.5	5.7	5.6	5.5	5.7	5.5	5.9	5.4	4.7	4.2	3.9	3.8	3.8	4.4
Pocatello, Idaho....	9.5	10.6	10.3	12.0	11.0	10.8	10.5	9.0	8.6	8.7	8.8	9.9	10.0	10.6	10.1	11.3	12.8	13.9	13.8	12.2	11.2	9.7	9.3	9.3	10.5
Point Reyes Lt., Cal....	22.9	22.1	22.9	23.4	21.9	21.7	21.1	20.5	19.1	18.8	18.6	17.7	18.0	17.6	17.9	18.7	19.2	20.3	21.3	22.1	22.7	22.6	20.6	20.6	
Port Crescent, Wash....	4.3	4.3	4.0	4.1	3.8	3.5	3.8	2.9	3.5	3.8	4.7	6.3	6.7	7.8	7.7	7.8	8.0	8.1	7.6	7.9	8.1	7.6	5.2	5.7	
Port Huron, Mich....	7.0	7.1	7.5	7.1	6.7	7.5	7.5	7.5	8.5	9.5	10.1	10.5	11.9	12.9	13.6	13.2	12.6	10.8	10.1	8.4	7.4	6.6	6.3	6.1	9.0
Portland, Me....	5.0	5.4	5.0	4.5	4.4	5.0	5.2	6.8	6.7	7.3	8.5	9.6	10.2	11.3	11.6	10.1	9.4	7.7	6.7	6.2	5.6	5.1	5.6	7.2	
Portland, Oreg....	10.1	8.9	7.1	5.7	4.5	3.7	3.7	4.0	3.5	3.5	4.5	5.9	6.5	7.5	7.3	7.1	7.9	8.4	8.5	9.0	9.9	10.0	9.4	7.2	
Pueblo, Colo....	5.1	4.7	5.1	3.9	4.5	5.0	4.3	4.8	4.6	5.3	5.4	6.5	7.3	8.8	9.5	11.2	11.1	11.4	10.7	9.0	8.8	7.5	6.3	4.9	7.0
Raleigh, N. C....	8.9	3.5	3.6	3.5	3.3	3.5	3.8	4.9	5.7	5.6	5.9	6.1	6.3	6.8	7.1	6.4	6.0	5.8	4.5	4.2	3.9	4.8	4.9	4.9	
Rapid City, S. Dak....	4.2	4.0	3.8	3.8	4.1	3.8	3.5	3.5	3.4	4.2	5.0	5.2	6.0	5.9	6.4	6.4	5.7	5.5	5.3	5.7	4.2	4.3	4.1	4.7	
Red Bluff, Cal....	4.9	5.5	4.9	4.4	3.6	3.8	3.0	3.1	3.0	3.8	4.2	4.9	5.0	4.8	5.1	6.1	6.6	7.8	7.1	6.8	6.5	6.5	6.1	5.7	5.1
Richmond, Va....	3.7	4.1	4.1	3.9	3.8	3.7	4.3	5.2	6.0	6.5	6.8	7.0	7.4	7.5	7.4	8.0	7.9	7.5	7.0	6.3	5.1	4.6	4.2	5.7	
Rochester, N. Y....	5.1	5.6	5.8	5.0	5.0	5.1	5.4	6.0	6.8	7.1	7.6	8.8	9.3	9.6	9.4	9.3	8.9	8.8	8.2	8.2	7.8	7.5	5.5	5.5	6.8
Roseburg, Oreg....	8.3	2.8	2.3	2.0	2.0	2.0	2.0	1.8	1.8	2.3	2.7	3.3	3.3	3.5	4.1	5.2	6.0	6.5	8.6	8.5	9.6	9.8	6.4	5.3	4.6
Sacramento, Cal....	9.7	9.5	10.2	10.3	10.2	9.7	9.1	9.0	8.4	7.6	7.1	7.1	7.1	7.5	7.7	8.5	9.7	9.6	10.4	11.1	11.1	10.9	10.8	10.4	9.3
St. Louis, Mo....	5.9	5.9	5.8	5.7	5.7	5.9	5.6	5.9	7.0	7.4	8.0	8.5	8.8	8.8	8.7	9.0	8.6	8.4	6.9	6.2	5.9	5.9	5.9	7.1	
St. Paul, Minn....	4.6	4.3	4.3	4.0	4.2	4.1	4.1	5.0	5.6	6.4	7.7	8.2	8.5	9.3	9.2	9.0	9.7	8.9	8.2	7.8	5.8	5.8	5.2	6.5	
Salt Lake City, Utah....	5.2	5.3	5.8	4.5	4.3	4.3	4.0	3.1	2.8	3.5	4.7	6.6	6.6	7.9	8.7	8.3	8.4	8.4	7.3	7.3	7.2	7.5	6.5	5.8	
San Antonio, Tex....	7.5	6.4	5.6	5.8	4.8	4.8	4.3	4.4	5.5	7.2	7.5	7.5	7.9	8.1	8.5	8.8	10.1	10.5	11.0	10.0	10.5	10.0	9.0	7.7	
San Diego, Cal....	2.6	2.4	2.0	2.5	3.0	2.8	2.7	2.5	3.0	3.1	3.5	5.5	7.8	9.3	10.5	10.6	10.6	10.5	10.1	9.4	8.5	6.6	5.3	3.5	5.8
Sandusky, Ohio....	5.8	6.3	6.1	5.8	5.5	5.5	6.1	6.3	6.9	7.0	7.4	8.0	8.8	8.5	8.1	7.8	7.4	7.0	6.6	5.4	5.2	5.5	5.5	6.5	
Sandy Hook, N. J....	14.8	13.6	13.8	18.8	14.0	13.8	12.5	18.1	11.9	11.7	12.7	12.9	13.6	13.4	15.1	14.8	15.0	15.3	15.5	16.2	15.1	16.0	16.3	15.5	14.3
San Francisco, Cal....	14.0	13.4	12.0	11.1	10.8	10.0	9.4	9.0	8.4	8.6	9.5	9.5	10.6	13.0	17.1	20.3	22.9	24.2	25.3	25.9	25.0	22.2	18.3	16.0	15.3
San Luis Obispo, Cal....	3.0	2.8	2.7	2.6	2.6	3.0	3.0	3.7	4.0	3.6	3.8	3.9	4.7	4.9	6.5	7.3	7.4	7.5	7.4	7.1	5.9	5.2	4.2	3.6	4.6
Santa Fe, N. Mex....	6.2	5.8	4.8	3.7	8.1	2.6	2.4	2.5	2.7	3.7	8.6	8.5	9.7	9.5	6.5	6.9	7.5	8.6	8.3	7.6	7.0	6.5	6.4	5.5	
Sault Ste. Marie, Mich....	5.2	5.2	5.6	5.4	5.5	4.7	5.1	6.2	7.0	7.9	9.1	10.6	11.0	11.7	11.4	12.2	11.9	11.9	10.7	8.9	7.7	6.8	6.0	5.7	
Savannah, Ga....	5.9	6.5	6.3	6.0	6.0	6.1	6.0	6.8	7.5	7.7	7.8	8.5	10.3	10.9	11.8	12.5	12.2	11.6	10.0	8.6	7.7	7.2	7.1	8.2	
Seattle, Wash....	3.2	3.5	3.4	3.4	2.9	2.4	2.7	2.5	3.1	3.8	4.5	4.9	5.6	5.7	6.5	7.1	7.5	7.8	7.1	6.9	6.0	5.0	4.3	4.7	
Shreveport, La....	8.9	3.8	8.5	3.5	8.3	3.2	3.0	3.8	5.3	5.5	5.6	6.0	6.6	7.0	8.8	6.8	6.7	7.1	6.6	5.0	4.6	3.5	3.0	5.0	
Sioux City, Iowa....	7.8	7.2	6.6	6.3	6.8	7.3	6.6	8.4	10.2	10.8	11.6	12.3	13.4	13.4	12.6	12.0	11.1	10.2	9.5	9.5	9.3	8.3	9.4		
Spokane, Wash....	4.2	4.1	4.0	4.4	4.6	4.5	4.5	4.3	4.7	6.1	6.4	6.8	7.0	6.7	7.0	7.9	8.0	7.7	7.7	7.7	7.3	5.9	4.6	6.0	
Springfield, Ill....	5.0	5.1	5.8	5.1	5.2	4.9	5.0	5.7	6.4	7.2	7.5	7.8	8.0	8.7	9.0	9.3	9.8	8.5	7.7	6.4	5.0	4.6	5.1	6.5	
Springfield, Mo....	5.9	6.0	6.0	6.0	5.8	6.1	6.3	5.8	6.6	7.8	8.8	8.5	8.5	9.1	9.0	8.6	8.4	8.1	8.6	8.6	8.0	5.7	6.1	7.1	
Tacoma, Wash....	5.5	5.0	4.2	3.8	3.1	2.7	2.7	3.0	2.8	3.8	4.9	5.0	5.7	6.7	7.4	8.0	8.4	7.7	7.3	7.3	7.3	6.8	6.3	5.4	
Tampa, Fla....	3.9	4.3	4.6	4.7																					

TABLE VI.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of July, 1899.

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>					°	Hours.							
Eastport, Me.	10	27	5	31	s. 57 w.	31	Williston, N. Dak.	28	18	12	13	n. 6 w.	10
Portland, Me.	11	28	12	26	s. 39 w.	23	<i>Upper Mississippi Valley.</i>						
Northfield, Vt.	26	28	7	11	s. 03 w.	4	St. Paul, Minn.	16	25	11	23	s. 53 w.	15
Boston, Mass.	11	20	10	24	s. 69 w.	26	La Crosse, Wis. t.	8	14	5	10	s. 40 w.	8
Nantucket, Mass.	7	30	7	27	s. 53 w.	33	Davenport, Iowa	14	20	15	27	s. 63 w.	13
Woods Hole, Mass.	6	27	8	26	s. 53 w.	35	Des Moines, Iowa	22	20	13	23	s. 81 w.	13
Bloc Island, R. I.	8	27	1	37	s. 63 w.	41	Dubuque, Iowa	20	21	10	29	s. 87 w.	19
New Haven, Conn.	14	28	7	33	s. 71 w.	28	Keokuk, Iowa	16	27	9	26	s. 57 w.	20
<i>Middle Atlantic States.</i>					°	Hours.	Cairo, Ill.	22	24	13	14	s. 27 w.	2
Albany, N. Y.	12	32	7	18	s. 29 w.	23	Springfield, Ill.	21	14	13	24	n. 58 w.	13
Binghamton, N. Y. t.	13	5	3	16	n. 60 w.	16	Hannibal Mo. t.	8	12	8	9	s. 14 w.	4
New York, N. Y.	16	27	10	22	s. 47 w.	16	St. Louis, Mo.	20	21	14	20	s. 80 w.	6
Harrisburg, Pa. t.	5	8	7	16	s. 73 w.	10	<i>Missouri Valley.</i>						
Philadelphia, Pa.	10	26	8	31	s. 55 w.	28	Columbia, Mo. *	8	12	8	12	s. 45 w.	6
Atlantic City, N. J.	9	30	9	33	s. 49 w.	32	Kansas City, Mo.	21	25	26	8	s. 77 e.	18
Cape May, N. J.	5	36	6	20	s. 23 w.	36	Springfield, Mo.	20	23	21	10	s. 80 e.	11
Baltimore, Md.	5	29	14	25	s. 30 w.	28	Lincoln, Nebr.	23	29	21	5	s. 69 e.	17
Washington, D. C.	13	32	12	18	s. 18 w.	20	Omaha, Nebr.	27	19	24	8	s. 63 e.	12
Lynchburg, Va.	12	32	19	18	s. 3 e.	20	Sioux City, Iowa	10	16	8	6	s. 18 e.	6
Norfolk, Va.	8	26	20	13	s. 14 e.	29	Pierre, S. Dak.	15	26	27	11	s. 56 e.	19
Richmond, Va.	12	33	15	14	s. 3 e.	21	Huron, S. Dak.	17	25	21	15	s. 37 e.	10
<i>South Atlantic States.</i>					°	Hours.	Yankton, S. Dak. t.	8	10	5	11	s. 72 w.	6
Charlotte, N. C.	15	25	20	14	s. 31 e.	12	<i>Northern Slope.</i>						
Hatteras, N. C.	12	37	10	15	s. 11 w.	26	Havre, Mont.	18	12	15	32	n. 71 w.	18
Raleigh, N. C.	14	30	15	16	s. 3 w.	16	Miles City, Mont.	21	14	14	13	n. 8 e.	7
Wilmington, N. C.	10	29	17	23	s. 18 w.	20	Helena, Mont.	14	25	8	25	s. 68 w.	29
Charleston, S. C.	10	35	14	15	s. 2 w.	25	Kalispell, Mont.	27	17	13	23	s. 45 w.	14
Augusta, Ga.	12	30	19	15	s. 13 e.	18	Rapid City, S. Dak.	17	14	11	20	n. 81 w.	19
Macon, Ga. t.	10	10	9	8	e.	1	Cheyenne, Wyo.	19	21	11	21	s. 79 w.	10
Savannah, Ga.	12	31	16	18	s. 6 w.	18	Lander, Wyo.	17	22	12	20	s. 74 w.	19
Jacksonville, Fla.	12	36	18	15	s. 7 e.	24	North Platte, Nebr.	9	31	22	9	s. 30 e.	26
<i>Florida Peninsula.</i>					°	Hours.	<i>Middle Slope.</i>						
Jupiter, Fla.	2	40	24	12	s. 18 e.	40	Denver, Colo.	22	23	11	17	s. 80 w.	6
Key West, Fla.	5	22	40	6	s. 65 e.	38	Pueblo, Colo.	20	15	21	18	n. 45 e.	4
Tampa, Fla.	13	18	27	14	s. 69 e.	14	Concordia, Kans.	12	29	15	11	s. 13 e.	30
<i>Eastern Gulf States.</i>					°	Hours.	Dodge, Kans.	13	29	30	5	s. 57 e.	34
Atlanta, Ga.	9	25	17	26	s. 29 w.	18	Wichita, Kans.	12	32	28	1	s. 53 e.	30
Pensacola, Fla. t.	14	7	9	18	n. 30 w.	8	Oklahoma, Okla.	10	33	23	4	s. 40 e.	30
Mobile, Ala.	18	22	7	26	s. 77 w.	18	<i>Southern Slope.</i>						
Montgomery, Ala.	18	33	18	12	s. 17 e.	21	Abilene, Tex.	8	38	34	2	s. 47 e.	41
Meridian, Miss. t.	6	13	6	15	s. 53 w.	11	Amarillo, Tex.	6	43	13	9	s. 6 e.	37
Vicksburg, Miss.	11	25	17	11	s. 28 w.	15	<i>Southern Plateau.</i>						
New Orleans, La.	12	33	10	27	s. 39 w.	27	El Paso, Tex.	20	13	37	9	n. 70 e.	30
<i>Western Gulf States.</i>					°	Hours.	Santa Fe, N. Mex.	11	26	31	12	s. 52 e.	24
Shreveport, La.	13	31	12	20	s. 24 w.	20	Flagstaff, Ariz.	22	15	7	23	n. 63 w.	29
Fort Smith, Ark.	14	11	32	14	n. 81 e.	18	Phoenix, Ariz.	13	10	24	26	n. 34 w.	4
Little Rock, Ark.	24	21	19	16	s. 45 e.	4	Yuma, Ariz.	7	23	15	28	s. 39 w.	21
Corpus Christi, Tex.	3	38	34	5	s. 40 e.	46	Independence, Cal.	17	21	16	24	s. 63 w.	9
Fort Worth, Tex. t.	4	19	3	9	s. 22 w.	16	<i>Middle Plateau.</i>						
Galveston, Tex.	7	40	14	16	s. 3 w.	33	Carson City, Nev.	10	18	1	44	s. 80 w.	44
Palestine, Tex.	11	34	24	14	s. 23 e.	25	Winnebucca, Nev.	18	18	14	29	w.	15
San Antonio, Tex.	10	33	35	2	s. 55 e.	40	Cedar City, Utah.	7	35	26	14	s. 23 e.	30
<i>Ohio Valley and Tennessee.</i>					°	Hours.	Salt Lake City, Utah.	24	20	24	10	n. 74 e.	15
Chattanooga, Tenn.	25	20	15	19	n. 89 w.	6	Grand Junction, Colo.	16	20	28	15	n. 73 e.	14
Knoxville, Tenn.	21	17	21	19	n. 27 e.	4	<i>Northern Plateau.</i>						
Memphis, Tenn.	23	21	9	19	n. 55 w.	12	Baker City, Oreg.	19	35	7	12	s. 17 w.	17
Nashville, Tenn.	23	14	10	26	n. 63 w.	18	Boise, Idaho.	9	19	18	28	s. 56 w.	18
Lexington, Ky. t.	4	14	9	11	s. 8 w.	14	Pocatello, Idaho.	7	34	21	19	s. 8 w.	27
Louisville, Ky.	21	23	10	18	s. 78 e.	8	Spokane, Wash.	19	21	21	17	s. 63 e.	4
Evansville, Ind. t.	9	12	9	8	s. 45 e.	4	Walla Walla, Wash.	12	29	11	17	s. 19 w.	18
Indianapolis, Ind.	24	21	10	22	n. 76 w.	12	<i>North Pacific Coast Region.</i>						
Cincinnati, Ohio.	18	26	21	19	s. 9 e.	13	Fort Canby, Wash.	36	7	6	24	n. 82 w.	34
Columbus, Ohio.	13	25	15	23	s. 34 w.	14	Neah, Wash.	5	4	9	46	n. 88 w.	37
Pittsburg, Pa.	26	15	7	23	n. 62 w.	24	Port Crescent, Wash. *	1	0	6	25	n. 87 w.	19
Parkersburg, W. Va.	10	23	16	21	s. 16 w.	19	Seattle, Wash.	23	16	11	24	n. 62 w.	15
Elkins, W. Va.	23	22	9	17	w.	8	Portland, Oreg.	29	17	11	24	n. 47 w.	18
<i>Lower Lake Region.</i>					°	Hours.	Roseburg, Oreg.	48	2	19	10	n. 11 e.	46
Buffalo, N. Y.	15	21	9	33	s. 76 w.	25	<i>Middle Pacific Coast Region.</i>						
Oswego, N. Y.	13	33	11	22	s. 29 w.	23	Eureka, Cal.	29	14	8	27	n. 66 w.	37
Rochester, N. Y.	16	21	5	31	s. 80 w.	29	Mount Tamalpais, Cal.	26	3	1	45	n. 62 w.	50
Erie, Pa.	10	15	6	40	s. 82 w.	34	Red Bluff, Cal.	19	29	21	11	s. 63 e.	22
Cleveland, Ohio.	15	21	19	18	s. 9 e.	6	Sacramento, Cal.	3	45	11	28	s. 16 w.	44
Sandusky, Ohio.	13	23	20	23	s. 52 w.	16	San Francisco, Cal.	0	35	0	52	s. 64 w.	58
Toledo, Ohio.	13	19	13	23	s. 58 w.	13	<i>South Pacific Coast Region.</i>						
Detroit, Mich.	25	18	14	18	n. 27 w.	9	Fresno, Cal.	34	4	0	44	n. 56 w.	53
<i>Upper Lake Region.</i>					°	Hours.	Los Angeles, Cal.	4	16	8	45	s. 74 w.	44
Alpena, Mich.	23	21	15	18	n. 72 w.	3	San Diego, Cal.	29	9	3	36	n. 59 w.	39
Escanaba, Mich.	21	27	14	16	s. 18 w.	6	San Luis Obispo, Cal.	28	15	2	21	n. 56 w.	23
Grand Haven, Mich.	18	14	14	28	n. 74 w.	15	<i>West Indies.</i>						
Marquette, Mich.	25	15	16	24	n. 39 w.	13	Basseterre, St. Kitts Island	11	1	57	0	n. 80 e.	57
Port Huron, Mich.	21	16	8	14	n. 63 w.	16	Bridge town, Barbados	9	5	56	0	n. 86 e.	56
Sault Ste. Marie, Mich.	16	13	21	28	n. 67 w.	8	Clemeugos, Cuba.	40	5	36	5	n. 41 e.	47
Chicago, Ill.	17	21	26	20	s. 51 e.	6	Havana, Cuba.	13	10	49	1	n. 86 e.	48
Milwaukee, Wis.	23	14	24	14	s. 48 e.	14	Kingston, Jamaica.	45	4	14	9	n. 7 e.	41
Green Bay, Wis.	19	23	19	16	s. 37 e.	5	Port of Spain, Trinidad.	10	7	46	6	n. 86 e.	40
Duluth, Minn.	26	12	20	24	n. 16 w.	15	San Juan, Porto Rico	0	14	54	1	s. 75 e.	55
<i>North Dakota.</i>					°	Hours.	Santiago de Cuba, Cuba.	29	18	26	6	n. 61 e.	23
Moorhead, Minn.	23	20	19	19	n.	3	Willemstad, Curaçao.	2	4	59	0	s. 88 e.	59
Bismarck, N. Dak.	26	8	27	13	n. 38 e.	23							

* From observations at 8 p. m. only.

† From observations at 8 a. m. only.

TABLE VII.—*Thunderstorms and auroras, July, 1899.*

TABLE VIII.—Average hourly sunshine (in percentages), July, 1899.

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.																Hours of sunshine.				
		A. M.								P. M.								Total.		Personal estimate.		
		5	6	7	8	9	10	11	Noon	1	2	3	4	5	6	7	8	Hours.	Hours.			
Albany, N. Y.	T.	40	39	45	64	72	77	85	88	98	90	87	81	74	61	46	35	321.9	485.2	69	43	
Atlanta, Ga.	T.	50	49	40	53	63	73	78	84	80	71	74	66	63	44	32	38	270.5	439.7	62	53	
Atlantic City, N. J.	T.	57	60	58	59	64	61	67	70	74	73	72	70	68	62	47	42	236.8	438.0	64	54	
Baltimore, Md.	T.	40	40	54	73	73	90	91	88	89	84	87	77	57	53	39	319.5	454.0	71	54		
Binghamton, N. Y.	T.	32	36	27	43	56	65	76	78	81	76	66	65	47	37	39	29	251.6	461.8	54	42	
Bismarck, N. Dak.	P.	60	68	76	79	78	77	77	77	64	71	76	75	79	71	75	71	385.9	472.6	74	53	
Boise, Idaho	P.	67	74	86	91	93	90	95	95	96	94	88	88	87	88	77	77	409.0	468.4	87	57	
Boston, Mass.	T.	43	57	63	64	73	73	75	78	76	74	76	75	73	65	54	43	315.7	461.8	68	57	
Buffalo, N. Y.	T.	45	49	57	69	79	80	89	86	98	91	91	82	74	68	47	38	347.6	465.2	75	46	
Charleston, S. C.	T.	57	40	50	44	48	61	57	71	66	57	75	71	58	34	19	27	293.7	497.2	53	43	
Chattanooga, Tenn.	T.	16	58	55	54	59	62	70	66	71	62	63	68	61	56	47	57	268.8	442.0	61	48	
Cheyenne, Wyo.	P.	42	48	78	85	85	85	85	83	79	78	65	60	40	45	30	9	291.6	458.6	64	40	
Chicago, Ill.	T.	27	30	51	68	80	79	83	81	82	78	74	75	60	55	45	48	303.5	461.8	86	55	
Cincinnati, Ohio	T.	63	53	57	64	78	81	91	90	90	82	82	75	60	58	46	31	246.1	453.0	76	58	
Cleveland, Ohio	T.	53	52	51	64	66	69	73	79	73	72	72	58	52	47	32	34	282.6	461.8	61	56	
Columbia, Mo.	T.	54	57	72	89	94	96	100	100	100	95	95	94	91	86	40	48	393.4	458.0	87	44	
Columbus, Ohio	T.	58	55	55	60	69	75	80	78	75	66	62	62	55	40	45	47	288.3	455.2	62	54	
Denver, Colo.	P.	51	57	68	73	83	87	88	78	88	82	50	49	62	52	41	36	291.5	455.2	64	55	
Des Moines, Iowa	T.	50	45	41	59	66	74	78	81	81	79	75	74	61	56	51	300.8	461.8	65	54		
Detroit, Mich.	T.	54	55	64	71	83	81	86	88	89	89	89	85	87	79	56	31	353.0	461.8	76	52	
Dodge, Kans.	P.	36	49	58	59	62	69	65	66	67	69	65	64	68	59	51	47	273.4	450.1	61	50	
Dubuque, Iowa	T.	62	64	65	70	72	81	80	82	82	80	85	78	73	68	69	39	348.4	461.8	75	53	
Eastport, Me.	T.	25	38	48	53	54	54	59	54	56	54	64	67	64	57	53	40	246.7	471.7	53	38	
Elkins, W. Va.	T.	6	3	21	58	68	81	86	86	86	83	74	74	70	58	7	8	257.9	459.0	57	48	
Erie, Pa.	T.	54	52	55	61	73	85	82	86	81	81	74	71	70	58	34	317.3	461.8	69	54		
Escanaba, Mich.	T.	38	39	41	42	58	54	57	52	73	70	56	49	45	39	48	167.8	456.6	87	37		
Eureka, Cal.	T.	12	13	13	17	24	27	30	45	48	49	52	49	49	50	48	49	498.0	447.4	98	96	
Fresno, Cal.	T.	81	91	97	100	100	100	100	100	100	100	100	100	100	99	97	91	306.8	427.4	72	53	
Galveston, Tex.	P.	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	341.4	458.0	75	55
Grand Junction, Colo.	P.	98	88	76	75	85	84	86	85	75	75	75	76	69	58	58	61	71	348.8	450.1	77	49
Harrisburg, Pa.	T.	70	61	55	53	59	72	76	77	82	81	80	64	58	46	43	44	291.1	455.2	64	46	
Helena, Mont.	P.	56	69	81	86	85	87	88	82	85	79	73	71	69	67	66	46	360.1	476.6	75	58	
Huron, S. Dak.	T.	65	67	67	63	74	82	85	91	84	78	73	68	57	47	48	49	394.2	488.4	69	57	
Indianapolis, Ind.	T.	44	43	42	49	64	71	72	78	75	75	71	70	60	45	39	40	272.5	455.2	60	50	
Jacksonville, Fla.	T.	26	34	59	91	93	90	90	91	88	88	88	87	87	81	81	80	230.0	426.6	86	55	
Kalispell, Mont.	T.	66	71	82	91	93	90	90	91	89	88	88	87	87	82	83	83	415.6	488.2	86	56	
Kansas City, Mo.	P.	57	55	53	61	61	63	60	59	56	55	62	66	58	58	50	58	265.4	459.0	59	49	
Key West, Fla.	T.	0	8	46	70	70	77	73	72	72	67	67	67	66	66	30	30	225.5	419.1	54	45	
Knoxville, Tenn.	T.	48	36	36	49	60	73	86	84	88	80	79	75	68	57	49	51	289.1	444.3	65	51	
Lexington, Ky.	T.	25	42	64	75	85	94	99	97	100	99	99	90	81	76	62	40	35	348.8	450.1	77	49
Little Rock, Ark.	T.	52	48	49	62	70	73	76	68	65	68	68	68	55	55	55	55	281.2	442.0	64	54	
Los Angeles, Cal.	P.	50	33	38	50	76	80	98	100	100	100	100	100	99	98	98	98	370.0	489.7	64	78	
Louisville, Ky.	T.	78	68	65	65	73	84	86	90	88	87	87	86	88	86	86	86	415.1	450.1	70	47	
Macon, Ga.	T.	23	25	53	64	69	85	95	95	96	90	86	82	82	82	82	82	314.2	457.2	72	52	
Meridian, Miss.	T.	0	35	36	42	61	72	78	65	71	62	53	49	38	38	38	38	223.6	434.5	51	44	
Minneapolis, Minn.	T.	30	35	39	61	63	72	75	81	77	81	79	79	82	82	82	82	297.0	471.7	63	53	
Mount Tamalpais, Cal.	T.	95	94	97	98	100	100	100	100	100	100	100	100	99	99	100	100	445.4	450.1	99	88	
Nashville, Tenn.	T.	23	23	28	43	45	58	67	69	67	68	67	64	57	55	55	55	299.6	444.3	54	52	
New Orleans, La.	T.	35	35	77	88	94	85	85	89	92	92	93	92	92	93	93	93	327.6	428.6	76	63	
New York, N. Y.	T.	40	29	45	62	67	71	70	80	80	80	80	80	80	80	80	80	291.4	458.6	64	53	
Northfield, Vt.	P.	36	36	46	53	62	64	59	60	47	49	55	53	45	45	44	44	289.4	458.4	51	39	
Oklahoma, Okla.	T.	43	49	50	58	68	89	86	86	90	92	91	91	88	88	88	88	345.6	442.0	80	64	
Omaha, Nebr.	T.	34	35	38	50	60	60	67	72	68	68	57	50	42	19	16	16	212.0	452.0	47	43	
Parkersburg, W. Va.	P.	43	45	63	75	75	80	78	81	81	80	84	85	80	85	85	85	330.5	437.2	73	64	
Phoenix, Ariz.	T.	51	45	48	55	69	72	85	87	90	89	85	85	79	71	69	69	302.8	435.2	66	44	
Philadelphia, Pa.	T.	64	61	62	67	77	85	88	82	84	84	85	85	79	76	64	65	344.6	456.6	75	61	
Pittsburg, Pa.	T.	58	50	64	88	88	90	93	94	91	91	92	94	88	88	88	88	334.1	434.4	70	61	
Pocatello, Idaho	T.	37	39	56	75	85	91	92	95	92	94	94	92	92	92	92	92	275.7	434.4	70	61	
Portland, Me.	T.	41	43	51	55	60	70	74	77	84	88	88	85	85	80	80	80	334.0	475.7	71	61	
Raleigh, N. C.	T.	52	37	50	66	71	85	84	86	90	90	82	82	83	83	83	83	287.6	444.3	65	46	
Rochester, N. Y.	T.	59	61	71	83	91	92	94	95	92	92	91	94	93	93	93	93	369.7	465.2	79	63	
St. Louis, Mo.	T.	54	48	71	74	85	90	85	87	87	87	87	87	87	87	87	87	341.3	453.0	75	48	
St. Paul, Minn.	P.	53																				

TABLE IX.—Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during July, 1899, at all stations furnished with self-registering gages.

Stations.	Date.	Total duration.		Total amt. of precipi- tation.	Excessive rate.		Amount be- fore exces- sive begin-	Depths of precipitation (in inches) during periods of time as indicated.																
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.			
Albany, N. Y.	1	2	3	4	5	6	7																	
Atlanta, Ga.	20	8.50 a.m.	2.30 p.m.	3.05	11.15 a.m.	12.45 p.m.	0.74	0.07	0.15	0.31	0.46	0.47	0.62	0.85	0.99	1.16	1.33	1.39	1.80	2.07	2.20			
Atlantic City, N. J.	25-26	7.10 p.m.	7.50 a.m.	0.53	4.45 a.m.	5.30 a.m.	0.25	0.04	0.08	0.18	0.34	0.50	0.65	0.75	0.82	0.90				0.38				
Baltimore, Md.	25-26																				0.30			
Binghamton, N. Y.	17			0.31																				
Bismarck, N. Dak.	2			0.22																	0.22			
Boise, Idaho	31			0.01																	0.01			
Boston, Mass.	26			0.99																	0.40			
Buffalo, N. Y.	5-6			0.95																	0.47			
Cairo, Ill.	22	3.00 p.m.	6.30 p.m.	0.97	3.05 p.m.	3.35 p.m.	0.02	0.19	0.37	0.57	0.68	0.80	0.89	0.90	0.92									
Charleston, S. C.	18	1.20 a.m.	2.25 a.m.	0.64	1.36 a.m.	2.06 a.m.	T.	0.10	0.23	0.30	0.39	0.50	0.64											
Chicago*																								
Cincinnati, Ohio	7			0.67																	0.55			
Cleveland, Ohio	15	9.50 a.m.	9.38 p.m.	1.85	7.45 p.m.	9.15 p.m.	0.59	0.12	0.17	0.21	0.25	0.29	0.33	0.41	0.44	0.50	0.62	0.70	1.11	1.26				
Columbia, Mo.	31	2.05 p.m.	3.04 p.m.	1.02	2.12 p.m.	2.32 p.m.	T.	0.31	0.54	0.88	1.00													
Columbus, Ohio	13	3.55 p.m.	10.18 p.m.	1.00	4.00 p.m.	4.15 p.m.	0.03	0.33	0.59	0.68														
Denver, Colo.	15-16			0.45																0.45		*		
Des Moines, Iowa	6			0.87																				
Detroit, Mich.	21	2.10 p.m.	4.05 p.m.	1.19	2.30 p.m.	3.20 p.m.	0.03	0.06	0.19	0.39	0.53	0.67	0.73	0.77	0.92	1.04	1.07							
Dodge, Kans.	14	1.40 p.m.	3.50 p.m.	0.80	2.25 p.m.	2.55 p.m.	0.03	0.10	0.22	0.36	0.54	0.64	0.72											
Duluth, Minn.	23	2.24 p.m.	11.43 p.m.	1.99	2.30 p.m.	3.10 p.m.	0.03	0.10	0.23	0.37	0.62	1.02	1.19	1.33	1.38	1.40					*			
Eastport, Me.	21			0.80																				
Elkins, W. Va.	28	2.08 p.m.	7.00 p.m.	1.47	2.45 p.m.	3.45 p.m.	0.14	0.12	0.14	0.21	0.34	0.39	0.41	0.44	0.68	0.78	0.78	1.14						
Erie, Pa.	16			0.37																				
Escanaba, Mich.	16			0.52																	0.51			
Fort Worth, Tex.	3			0.78																	*			
Fresno, Calif.																								
Galveston, Tex.	25-26	10.45 p.m.	4.15 p.m.	1.97	1.27 p.m.	2.15 p.m.	1.05	0.09	0.20	0.26	0.32	0.43	0.50	0.59	0.72	0.81	0.84	0.86						
Grand Junction, Colo.	11			0.08																	0.08			
Hannibal, Mo.	4	12.10 p.m.	5.30 p.m.	1.18	3.50 p.m.	4.15 p.m.	0.12	0.22	0.48	0.73	0.89	0.97	1.00	1.01										
Harrisburg, Pa.	8			0.77																				
Hatteras, N. C.	23	4.15 a.m.	10.30 a.m.	3.37	8.40 a.m.	9.40 a.m.	1.11	0.17	0.65	0.77	1.00	1.19	1.37	1.47	1.69	1.89	2.01	2.13	2.18	2.26	2.33	2.40		
Huron, S. Dak.	5	7.50 a.m.	10.16 a.m.	0.65	8.40 a.m.	9.05 a.m.	0.08	0.16	0.26	0.43	0.50	0.54												
Indianapolis, Ind.	25	7.07 a.m.	11.40 a.m.	1.22	8.30 a.m.	9.20 a.m.	0.09	0.06	0.15	0.28	0.47	0.62	0.72	0.79	0.91	0.94								
Jacksonville, Fla.	11	2.20 p.m.	3.15 p.m.	1.14	2.28 p.m.	2.55 p.m.	0.02	0.21	0.48	0.75	0.96	1.08	1.11											
Jupiter, Fla.	19	5.30 p.m.	10.30 p.m.	1.39	6.25 p.m.	7.00 p.m.	0.03	0.08	0.26	0.48	0.72	0.83	0.90	0.94										
Kansas City, Mo.	24	4.00 p.m.	6.20 p.m.	0.60	4.11 p.m.	4.20 p.m.	0.05	0.16	0.30	0.39	0.40													
Key West, Fla.	6	9.54 a.m.	11.45 a.m.	0.76	9.56 a.m.	10.20 a.m.	0.01	0.19	0.38	0.53	0.64	0.70	0.73											
Knoxville, Tenn.	22			0.73															0.75					
Lexington, Ky.	16			1.34																0.56				
Lincoln, Nebr.	2			0.20																0.20				
Little Rock, Ark.	18	1.00 p.m.	2.40 p.m.	0.85	1.18 p.m.	1.88 p.m.	T.	0.25	0.53	0.71	0.82	0.84												
Los Angeles, Calif.	20	3.20 p.m.	5.30 p.m.	1.23	3.40 p.m.	4.25 p.m.	0.03	0.10	0.32	0.55	0.72	0.78	0.88	1.02	1.11	1.20								
Louisville, Ky.	16			0.62																	0.45			
Macon, Ga.	8	5.03 p.m.	6.44 p.m.	0.80	5.18 p.m.	5.39 p.m.	0.03	0.41	0.63	0.76	0.77													
Memphis, Tenn.	24			2.05																	1.00			
Meridian, Miss.	27	7.27 a.m.	6.03 p.m.	2.40	7.35 a.m.	8.05 a.m.	0.04	0.12	0.39	0.50	0.72	0.84	0.89	0.94	0.98	1.01	1.05							
Milwaukee, Wis.	3			0.53																	1.09	1.19	1.21	
Nantucket, Mass.	26	6.30 p.m.	7.25 p.m.	0.88	6.34 p.m.	6.51 p.m.	T.	0.28	0.56	0.76	0.82	0.84												
Nashville, Tenn.	23	7.28 a.m.	10.15 a.m.	1.22	7.30 a.m.	7.58 a.m.	T.	0.20	0.40	0.59	0.69	0.81	0.90											
New Orleans, La.	23	9.10 a.m.	3.05 p.m.	2.61	11.18 a.m.	12.20 p.m.	0.96	0.24	0.50	0.65	0.71	0.81	0.90	0.98	1.04	1.15	1.32							
New York, N. Y.	8	5.08 p.m.	10.42 p.m.	2.49	7.00 p.m.	8.20 p.m.	0.58	0.07	0.17	0.21	0.32	0.48	0.64	0.81	0.94	1.04	1.18	1.23	1.68					
Norfolk, Va.	8	9.00 p.m.	9.55 p.m.	0.78	7.11 p.m.	8.20 p.m.	T.	0.20	0.40	0.59	0.71	0.87	0.96	1.06	1.16	1.21	1.29	1.30	1.51					
Northfield, Vt.	17	4.45 p.m.	7.25 p.m.	0.88	5.34 p.m.	6.11 p.m.	T.	0.12	0.33	0.46	0.47													
Oklahoma, Okla.	21	8.50 p.m.	10.40 p.m.	1.37	8.52 p.m.	9.50 p.m.	T.	0.14	0.27	0.39	0.44	0.65	0.79	0.85	0.91	0.97	1.02	1.23	1.30	1.46				
Omaha, Nebr.	22	D. N.	D. N.	0.29																				
Parkersburg, W. Va.	29-30	10.05 p.m.	7.50 a.m.	1.06	2.35 a.m.	3.00 a.m.	0.25	0.21	0.54	0.66	0.73	0.76												
Philadelphia, Pa.	26	2.10 a.m.	6.30 a.m.	1.40	3.50 a.m.	3.10 a.m.	0.12	0.13	0.32	0.56	0.67	0.70	0.72											
Pittsburg, Pa.	17			0.42																	0.82			
Pocatello, Idaho	11			0.06																	0.05			
Portland, Me.	26	8.15 a.m.	12.40 p.m.	2.05	9.25 a.m.	10.50 a.m.	0.19	0.10	0.27	0.38	0.49	0.56	0.74	0.91	0.98	1.07	1.15	1.27	1.58	1.74				
Portland, Oreg.	21			0.47																	0.32			
Raleigh, N. C.	28	2.40 p.m.	3.25 p.m.	0.75	2.50 p.m.	3.05 p.m.	0.04	0.08	0.20	0.59	0.61	0.66	0.71											
Richmond, Va.	30	7.45 p.m.	11.30 p.m.	1.07	7.48 p.m.	8.20 p.m.	T.	0.12	0.20	0.44	0.54	0.68	0.73	0.75							0.67			
Rochester, N. Y.	8			0.67																	0.40			
St. Louis, Mo.	16	11.38 a.m.	1.15 a.m.	1.27	12.50 p.m.	1.05 p.m.	0.12	0.15	0.45	0.79														

TABLE IX.—*Accumulated amounts of precipitation for each 5 minutes, etc.—Continued.*

Stations.	Date.	Total duration.		Total amt. of precip- itation.	Excessive rate.		Amount be- fore exces- sive began.	Depths of precipitation (in inches) during periods of time as indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Wilmington, N. C.....	1	2	3	4	5	6	7														
Yankton, S. Dak.....	21	3.30 a.m.	8.20 a.m.	1.98	4.37 a.m.	5.30 a.m.	0.11	0.12	0.26	0.32	0.40	0.54	0.69	0.77	0.81	0.85	0.92	0.99	.....	.....
Basseterre, St. Kitts.....	12	.....	.....	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.46	.....	.....
Bridgetown, Barbados.....	31	.....	.....	0.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.42	.....	.....	.....	.....	.....	.....
Cienfuegos, Cuba.....	19	5.00 p.m.	7.30 p.m.	1.49	6.00 p.m.	7.05 p.m.	0.06	0.05	0.21	0.28	0.32	0.39	0.41	0.47	0.50	0.79	1.12	1.34	1.43	.....
Havana, Cuba.....	23	4.25 p.m.	5.40 p.m.	1.23	4.30 p.m.	5.35 p.m.	0.01	0.06	0.25	0.34	0.36	0.45	0.53	0.56	0.58	0.64	0.78	1.14	1.22	.....
Kingston, Jamaica.....	11	12.30 a.m.	4.00 a.m.	0.66	12.32 a.m.	1.00 a.m.	0.00	0.14	0.45	0.79	1.02	1.17	1.32	1.25	.....	.....	.....	.....	.....	.....
Port of Spain, Trin.....	8	10.45 a.m.	1.30 p.m.	1.23	10.50 a.m.	11.35 a.m.	T.	0.08	0.16	0.23	0.33	0.37	0.42	0.52	0.71	0.78	.....	.....	.....
Puerto Principe, Cuba.....	20	2.46 p.m.	5.20 p.m.	0.75	3.40 p.m.	3.00 p.m.	0.00	0.28	0.53	0.59	0.60	0.63	0.67	0.71	.....	.....	.....	.....	.....	.....
Roseau, Dominica, W.I.....	27	12.05 p.m.	1.44 p.m.	1.76	13.24 p.m.	1.03 p.m.	0.14	0.33	0.64	0.75	0.76	0.92	1.36	1.50	1.60	.....	.....	.....	.....	.....
San Juan, Porto Rico.....	28	5.44 a.m.	7.04 a.m.	0.82	6.30 a.m.	7.00 a.m.	0.01	0.07	0.20	0.29	0.38	0.78	0.81	.....	.....	.....	.....	.....	.....	.....
Santiago de Cuba.....	28	.....	.....	0.45	.....	.....	.....	0.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Santo Domingo.....	25	1.15 p.m.	2.05 p.m.	0.86	1.17 p.m.	1.85 p.m.	T.	0.32	0.44	0.69	0.82	0.83	.....	.....	.....	.....	.....	.....	.....
Willemstad, Curaçao.....	21-22	10.40 a.m.	1.35 a.m.	4.21	6.35 p.m.	8.15 p.m.	1.78	0.06	0.18	0.21	0.25	0.37	0.30	0.34	0.46	0.66	0.68	0.80	1.05	1.32	1.43
				0.58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.48	.....	.....	.....

* Self-register out of order.

† No precipitation during the month.

‡ Estimated.

TABLE X.—*Excessive precipitation, by stations, for July, 1899.*

Stations.	Monthly rainfall 10 inches, or more	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
<i>Alabama.</i>						
Alco.	11.59	Inches.	Inches.	Ins.	h.m.	
Do.	4.65		10			
Montgomery	13.43	2.64	22			
Do.	5.27	20-21		3.81	1 53	20-21
Do.	3.10	22-23		1.50	0 33	22
Do.				1.09	0 28	23
Do.				1.05	0 28	25
Mount Willing		3.00	22			
Talladega		4.15	22			
Tuscaloosa		2.53	26-27			
Wilson	12.99	3.13	21	1.00	0 25	5
Do.		2.90	21	1.50	0 35	8
Do.				1.01	0 50	20
<i>Arizona.</i>						
Oro Blanco				1.20	0 50	21
Walnut Grove						
<i>Arkansas.</i>						
Hardy		3.38	21			
Hot Springs				1.26	1 00	23
Little Rock		2.88	21-23	1.12	0 39	20
Do.				1.16	0 55	22
Do.				1.40	0 40	22
Lonoke	10.12	5.51	22			
Marianna		4.64	23			
New Gascony		2.50	27			
Oscoda				1.22	1 00	23
Pond		3.10	31			
Powell		4.81	21			
Silver Springs		5.18	20-21			
Washington				1.08	1 00	17
<i>Colorado.</i>						
Rockyford				3.08	1 00	13
Santa Clara				1.08	0 30	12
<i>Connecticut.</i>						
Canton	3.50	8				
Hartford	3.71	8				
West Simsbury	3.65	8				
<i>Florida.</i>						
Boca Raton		2.80	24			
Brooksville	11.15					
Ester	14.93	3.65	23-24			
Eustis	13.55	3.45	2			
Do.	2.59	22				
Federal Point	11.25	2.70	6	2.70	2 00	6
Huntington	11.68	3.23	2			
Inverness	10.08	2.50	13			
Jacksonville				1.08	0 35	11
Do.				1.00	0 48	19
Kissimmee		2.59	21			
Manatee	24.45	8.30	23-25	1.78	1 35	7
Merritts Island				1.38	0 55	20
Myers	12.08	3.67	2			
Pensacola		2.61	24-25	1.09	1 00	24
Plant City	10.36	2.87	24-25			
St. Francis	12.97	4.74	22			
St. Francis Barracks	11.80	4.50	2 3			
Switzerland	12.86	3.82	4	2.82	2 30	4
Do.	4.57	21				
Tampa	15.53	3.73	22-23	1.00	0 51	23
Do.	5.16	24-25		1.30	0 38	23
Tarpon Springs	18.46	3.84	22			
Do.	4.67	24				
<i>Georgia.</i>						
Adairsville		2.68	22			
Atlanta		4.05	20	2.06	1 09	21
Augusta				1.47	0 38	7
Carlton		2.50	8			
Clayton		2.70	24			
Morgan		3.76	20-21			
Tallapoosa				1.70	1 00	3
<i>Illinois.</i>						
Ashton				1.53	1 00	11
Astoria				1.01	0 47	21
Cairo		2.70	4			
Chemung		3.83	22	3.83	1 00	22
Equality		5.10	16	5.10	1 30	16
Havana		4.93	15			
Lagrange				1.90	1 10	27
Martinsville						
Ottawa		3.16	14-15			
Riley		2.65	15	1.12	0 15	15
St. Charles		4.46	15			
Scales Mound		2.97	24			
Streator		3.50	15			
Sycamore		2.64	15			
Tilden				1.67	1 00	7
Wheaton		4.68	15	4.21	3 00	15
<i>Indiana.</i>						
Butlerville				1.04	1 00	5
Greensburg				2.41	2 00	25
Knightstown				1.25	0 25	5
Scottsburg				2.18	1 40	28
<i>Indian Territory.</i>						
Ryan		2.72	18			
Sapulpa				1.00	1 00	2
South McAlester		3.33	21-22	1.62	1 05	1
Tahlequah				2.00	2 00	8
Wagoner		10.08	2.80	21		
<i>Iowa.</i>						
Alta				1.42	1 10	5
Amana		3.60	2-3			

TABLE X.—*Excessive precipitation—Continued.*

Stations.	Monthly rainfall 10 inches, or more	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
		Amt.	Day.	Amt.	Day.
<i>Iowa—Continued.</i>					
Bedford		Inches.	Inches.	Ins.	h.m.
Chariton				8.80	2-3
Clinton				2.61	3
Hawkeye				2.50	12
Knoxville				3.37	3
Mount Vernon				2.60	3
Ottumwa				3.58	23
Pella				2.73	2-3
Woodburn					
<i>Kansas.</i>					
Atchison				2.53	7
Augusta				2.75	7
Campbell				3.58	28-29
Centropolis				2.50	7
Chanute				10.05	4
Do.				4.12	4
Columbus				3.55	7
Dodge				2.64	4
Eskridge				4.00	6
Eureka				2.91	3-4
Eureka Ranch				3.00	2
Fort Scott				2.50	3-4
Gove					
Grenola				2.68	7
Horton				2.60	29
Independence				2.88	31
Lawrence				3.67	6-7
Lebo				2.78	7
Manhattan				2.68	6-7
Meade				3.00	14
Morantown				6.18	3-4
Olathe				2.80	7
Osage City				3.98	6
Ottawa				3.76	3
Seneca				3.83	28-29
Topeka				3.01	6-7
Toronto				10.15	1.07
Do.				3.80	1 00
Yates Center				5.58	3-4
<i>Kentucky.</i>					
Bardstown				2.53	28
Earlington				3.48	21-22
Hopkinsville				2.57	28
Loretto				3.24	22
Marrowbone				2.90	22
Paducah					
<i>Louisiana.</i>					
Bastrop				3.10	24
Baton Rouge				3.10	18
Franklin				2.53	25
Hammond				3.10	9
Jeanerette				2.61	25
New Orleans				1.32	1 00
Oakridge				1.40	1 10
Opelousas				2.24	1 30
Ruston				2.05	1 00
Sugar Experiment Station				8.10	25
Sugartown				2.74	18
White Sulphur Springs				2.76	18
<i>Maine.</i>					
Kineo				2.50	7
Portland					
<i>Maryland.</i>					
Boonsboro				3.20	16
Cambridge					
Jewell				1.29	1 00
Pocomoke City				2.95	26-27
<i>Massachusetts.</i>					
Leeds					
Monson				2.80	8
Pittsfield				2.58	25
Springfield Armory				2.68	8-9
<i>Michigan.</i>					
Bay City				3.80	5
Big Rapids				3.48	4
Detroit				1.00	0 42
Menominee				1.25	1 00
Mount Pleasant				3.00	3-4
Reed City				2.50	4
<i>Minnesota.</i>					
Bird Island					
Grand Meadow				3.40	12
Moorhead					
<i>Mississippi.</i>					
Austin				5.35	23
Batesville				7.80	23-23
Brookhaven				2.63	27
Grinnwood				2.90	4
Logtown					
Meridian				2.42	20
Menard				1.00	0 42
Pontotoc				1.25	1 00
Vicksburg				3.04	27
Water Valley				2.53	23
<i>Missouri.</i>					
Appleton City				3.88	23
Columbia					

TABLE X.—*Excessive precipitation*.—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.			Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.	
<i>Missouri—Continued.</i>							
Conception	3.55	14					
Cowgill	3.36	3					
Fulton				1.80	1 30	15	
Do.				1.55	0 30	31	
Hannibal				1.00	0 30	4	
Hazlehurst				1.00	0 30	31	
Oakfield	2.76	4					
Oregon	4.48	23-29					
Poplarbluff	3.00	22		3.00	1 00	22	
St. Louis				1.01	0 37	16	
Do.				1.11	0 35	24	
Shelbina	2.50	31					
<i>Montana.</i>							
Glendive	3.00	31	3.00	1 00	31		
<i>Nebraska.</i>							
Agee	3.25	2					
Ainsley				1.25	1 00	5	
Auburn	3.05	6					
Beatrice	2.50	7					
Beaver City	3.00	28	2.50	1 00	28		
Brokenbow	2.88	26-27	1.70	1 00	12		
Columbus	2.69	16	2.69	2 00	16		
Dawson	2.44	6	1.51	0 20	6		
Eden	3.23	7-8					
Kirkwood				1.20	1 00	31	
Nesbit	2.52	26					
Republican	3.57	28					
Salem	4.05	28					
Seward	2.77	2					
Tablerock	3.35	28-29					
Tecumseh	2.73	6					
Theford				2.08	1 30	18	
Wallace	2.60	28					
Wellfleet				1.29	1 00	2	
Wilsonville	2.60	28					
<i>New Hampshire.</i>							
Grafton				1.60	1 00	21	
Littleton				1.00	0 45	21	
<i>New Jersey.</i>							
Atlantic City	2.87	26	1.00	1 00	26		
Beverly			1.11	0 45	8		
Do.			1.34	0 45	30		
Bridgeton	2.89	26	1.75	1 00	6		
Do.			1.69	1 00	26		
Clayton	3.62	26					
Egg Harbor City	3.90	26					
Hammonton	3.88	25-26					
Mount Pleasant	4.95	26					
Trenton				1.50	0 30	22	
Ocean City	2.90	26					
Paterson				1.50	1 00	8	
Staffordville	4.80	26-27					
Tuckerton	3.70	26					
Vineyard	2.77	26					
<i>New Mexico.</i>							
Albuquerque	3.00	18					
Clayton	10.51	4-8					
Gallinas Spring	3.25	19					
Raton	3.50	17					
Roswell				1.33	0 30	19	
<i>New York.</i>							
Bedford	2.94	8					
Brentwood				1.00	1 00	23	
Garrattsville	4.73	8-9					
Hemlock Lake				1.10	0 30	25	
Honeymead Brook	4.35	8-9					
Liberty	2.50	26					
New York			1.57	1 43	8		
Do.			1.07	0 41	12		
Oxford	2.90	8					
Port Jervis	10.49	4-45	29-30				
<i>North Carolina.</i>							
Experimental Farm				1.02	1 00	23	
Greenville	10.23	20					
Hatteras			3.60	21.5	1 00	23	
Do.			3.11	24-25			
Henderson	2.58	4					
Hendersonville	2.55	23					
Louisburg				1.00	0 20	30	
Mana	2.66	26					
Moncure	2.87	26					
Morganton	2.60	26					
Roxboro	3.04	7					
Selma	12.15						
Sloan	11.16	6.49	25				
Southern Pines	10.65						
Weldon	10.27	5.08	26-27				
Wilmington		2.60	24-25				
<i>North Dakota.</i>							
Dickinson				1.05	0 50	14	
Donnybrook	2.50	5					
Dunseith	3.08	22					
Sheyenne	3.20	5					
<i>Ohio.</i>							
Camp Dennison				1.46	0 80	25	
Dupont	2.80	15					
Seaman	2.65	25	2.65	0 80	25		
Beaver				2.60	23-24		

TABLE X.—*Excessive precipitation*.—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.			Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.	
<i>Oklahoma—Continued.</i>							
Clifton	14.00	7.60		1.45	1 00	19	
Fort Sill		2.80		2.50	1 00	16	
Hennessey				1.76	1 40	15	
Kingfisher				1.00	0 31	21	
Oklahoma				4.27	4.27	7	
Pawhuska				2.58	2 30		
Perry		8.73		8.73	20		
Prudence				2.00	1 15	15	
Sac and Fox Agency				1.45	1 45		
Waupomis				1.45	1 45		
Winnview				1.45	1 45		
<i>Pennsylvania.</i>							
Greensburg				1.50	0 40	8	
Hamburg				1.60	1 00	16	
Parker		2.50		1.16	1 00	17	
Philadelphia				1.42	1 00	5	
Scranton				1.19	0 40	29	
Shinglehouse				3.43	8		
Seisholtzville							
<i>South Carolina.</i>							
Clemson College				2.68	26		
Georgetown				2.75	25		
Santuck				4.33	26		
Summerville				3.10	19		
Temperance		10.16		8.00	6		
<i>South Dakota.</i>							
Aberdeen				2.50	4		
Canton				3.71	5		
Kimball				1.12	0 20	5	
Mitchell				2.00	1 00	5	
Tyndall				2.57	13		
<i>Tennessee.</i>							
Erasmus				2.73	20	2.52	26
Franklin				2.66	24		
Harriman							
Johnsonville				2.53	22		
Lewisburg				2.85	25-26		
Madison						1.88	23
Memphis						1.00	24
Nashville				3.39	22-23	1.25	24
Oakhill						2.15	17
Trenton						1.69	15
Waynesboro				4.00	22-23		
<i>Texas.</i>							
Alvin				12.70	8.82	8.82	26
Amarillo				2.94	7-8	1.11	18
Arthur						2.00	1 30
Austin				2.50	1		
Duval				4.64	1		
Fort Clark				2.81	3		
Gainesville				4.02	26-27	1.56	4
Galveston						1.75	1 00
Grapevine				2.50	18		
Hale Center				2.70	27		
Hulen						1.19	1 15
Jacksonville						1.29	1 45
Do.						1.45	18
Mann				3.02	20		
Mount Blanco				2.74	1		
New Braunfels						1.40	20
Palestine				4.10	1		
Rhinelander				4.03	27		
Sugarland				2.70	27		
Victoria							
<i>Utah.</i>							
Heber						1.00	1 00
<i>Vermont.</i>							
Bennington				2.61	8-9		
Burlington				3.82	9		
<i>Virginia.</i>							
Bigstone Gap				3.40	25		
Rockv'mount				2.80	26		
Salem						1.12	40
Speers Ferry				8.93	25-26		
Sunbeam				8.05	26-27		
<i>West Virginia.</i>							
Elkins						1.00	43
<i>Wisconsin.</i>							
Amherst				2.50	19		
Beloit				2.50	3		
Gratiot				3.10	3		
Lancaster				2.97	14		
New London						1.00	30
Racine				2.80	4		
Shawano						1.80	40
<i>Porto Rico.</i>							
Adjuntas				10.84		2.17	34
Canovanas				10.20			
Cidra				11.45			
Corozal				13.66			

TABLE XI.—Data furnished by the Canadian Meteorological Service, July, 1899.

Stations.	Pressure.			Temperature.			Precipitation.			Stations.	Pressure.			Temperature.			Precipitation.				
	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Mean max- imum.	Mean min- imum.	Total.	Departure from normal.	Depth of snow.	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Mean max- imum.	Mean min- imum.	Total.	Departure from normal.	Depth of snow.	
St. Johns, N. F.....	Ins.	Ins.	Ins.	o	o	o	o	Ins.	Ins.	Ins.	Saugeen, Ont.....	Ins.	Ins.	Ins.	o	o	o	o	Ins.	Ins.	Ins.
Sydney, C. B. I.....	29.80	29.94	-0.04	57.8	-1.5	66.9	49.4	3.81	.....	.....	Parry Sound, Ont.....	29.27	29.96	+0.08	64.3	-0.4	73.4	55.1	3.84	+1.81	.....
Halifax, N. S.....	29.90	29.94	+0.03	63.3	+1.0	73.2	53.4	4.26	-0.24	.....	Port Arthur, Ont.....	29.26	29.94	+0.02	64.6	-1.4	74.1	55.0	2.87	+0.44	.....
Grand Manan, N. B.....	29.86	29.97	+0.05	63.0	+0.4	73.3	53.8	5.75	+1.50	.....	Winnipeg, Man.....	29.10	29.90	0.00	66.6	-0.6	79.0	54.2	3.32	+0.51	.....
Yarmouth, N. S.....	29.88	29.93	-0.02	60.8	+0.9	68.2	53.3	5.76	+1.93	.....	Minnedosa, Man.....	29.10	29.91	+0.06	65.4	-0.2	78.7	52.1	1.14	-1.26	.....
Charlottet' n, P. E. I.....	29.87	29.91	-0.01	65.6	+1.5	74.0	57.3	5.08	+1.08	.....	Qu'Appelle, Assin.....	27.71	29.89	+0.05	64.2	-0.7	77.0	51.4	1.57	-0.88	.....
Chatham, N. B.....	29.87	29.89	+0.01	64.9	-0.1	74.1	55.7	6.18	+1.45	.....	Medicine Hat, Assin.....	27.69	29.90	+0.05	68.1	-0.8	82.0	54.2	3.79	+2.07	.....
Father Point, Que.....	29.82	29.85	.00	56.0	-1.6	65.0	47.0	4.61	+1.39	.....	Swift Current, Assin.....	27.44	29.93	+0.02	65.9	-0.6	78.9	52.9	3.95	+1.83	.....
Quebec, Que.....	29.56	29.88	+0.01	65.6	+0.1	75.4	55.9	5.16	+1.20	.....	Calgary, Alberta.....	26.51	29.96	+0.05	60.8	-0.3	74.1	46.5	2.11	-0.47	.....
Montreal, Que.....	29.68	29.88	.00	68.8	+0.2	76.6	60.0	7.73	+3.15	.....	Banff, Alberta.....	25.44	29.98	.....	56.6	.....	72.3	40.9	2.70	.....	.....
Bissell, Ont.....	29.34	29.94	+0.05	63.0	+1.6	75.5	50.6	4.94	+1.82	.....	Edmonton, Alberta.....	27.68	29.91	.00	61.4	+0.8	74.5	48.4	2.86	-0.74	.....
Ottawa, Ont.....	29.58	29.89	.....	67.7	-1	77.5	58.0	7.68	.....	.....	Prince Albert, Sask.....	28.87	29.87	.....	62.3	-0.4	78.9	50.6	4.86	.....	.....
Kingston, Ont.....	29.62	29.93	+0.03	67.6	-1.0	76.0	59.2	1.42	-1.84	.....	Battleford, Sask.....	28.23	29.91	.....	64.8	+0.1	77.6	52.1	2.21	.....	.....
Toronto, Ont.....	29.57	29.94	.00	69.3	+1.3	80.6	57.9	1.08	-1.94	.....	Kamloops, B. C.....	28.69	29.92	.....	69.1	.....	82.4	55.8	1.87	.....	.....
White River, Ont.....	28.64	29.96	.00	59.7	+0.2	75.4	44.0	1.35	-1.96	.....	Esquimalt, B. C.....	29.99	30.02	.....	61.8	+1.8	73.7	49.9	0.18	.....	.....
Port Stanley, Ont.....	29.34	29.96	.00	67.8	0.0	78.2	57.4	1.67	-1.88	Hamilton, Bermuda.....	30.00	30.16	+0.05	79.5	-1.1	85.0	74.0	5.67

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